

ASTORIA HERITAGE SCANDINAVIAN PARK

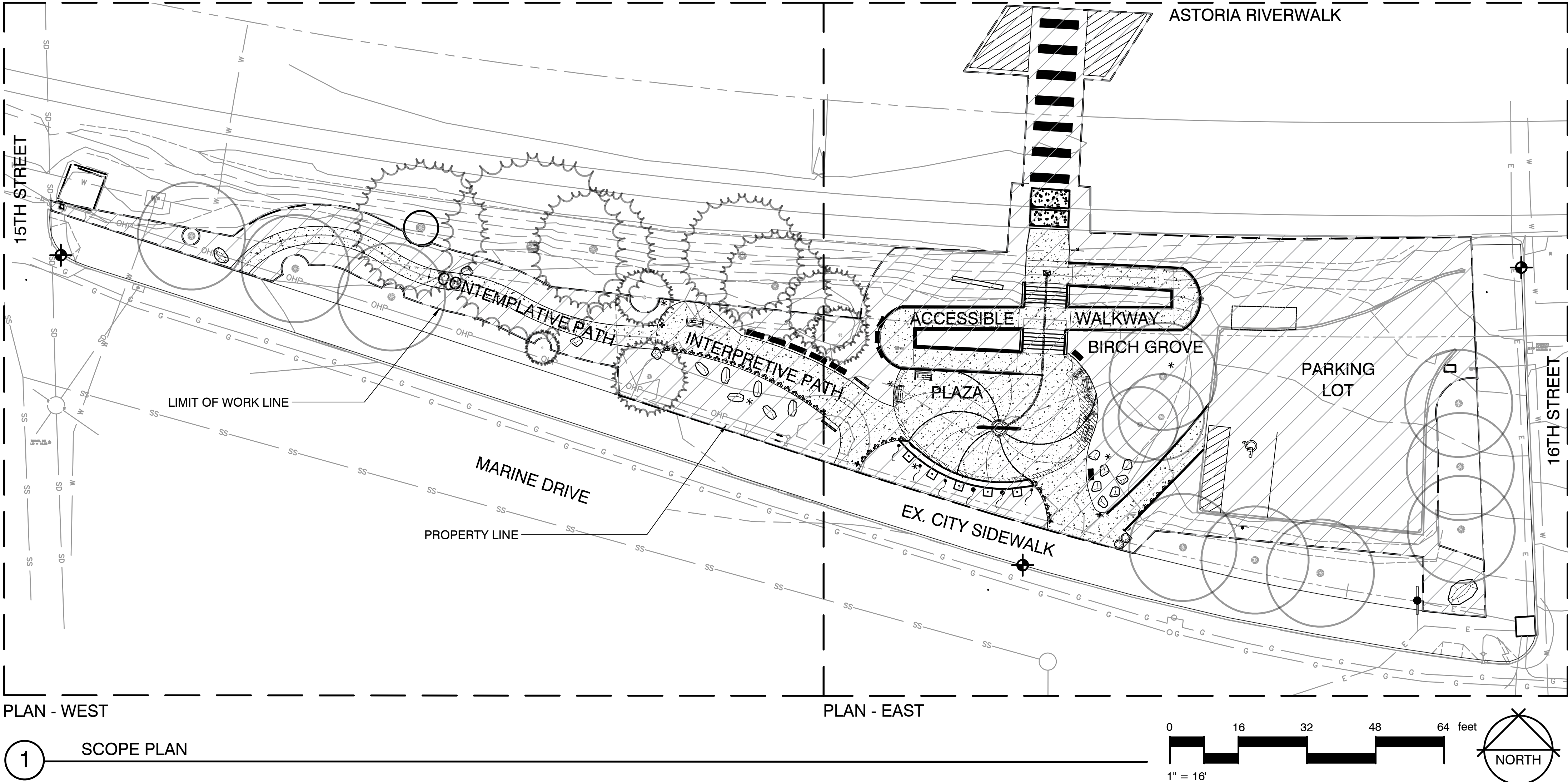


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C3.01	SITE LAYOUT, PAVING, & STRIPING PLAN - EAST
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DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
COVER SHEET

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: G1.00
SHEET NO: OF

ORIGINATED BY: / DATE: /
CHECKED BY: / DATE: /
BACK-CHECKED BY: / DATE: /
10/4/2018 7:49 PM

ORIGINATED BY: / DATE: /
CORRECTED BY: / DATE: /
BACK-CHECKED BY: / DATE: /
10/4/2018 7:49 PM

PROJECT DATA

LEGAL OWNER:
CITY OF ASTORIA
1085 DUANE STREET
ASTORIA, OREGON 97103

OREGON DEPARTMENT OF
TRANSPORTATION PLANNING & DEVELOPMENT
ODOT REGION 2 HEADQUARTERS
455 AIRPORT ROAD SE BUILDING B
SALEM OR 97301-5395

CLIENT / OWNER REPRESENTATIVE:
LORAN MATHEWS, PRESIDENT
JUDI LAMPI, MONUMENT PROJECT MANAGER
ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION (ASHA)
PO BOX 34
ASTORIA, OREGON 97103

LEGAL DESCRIPTION:
1590 MARINE DR.; MAP T8N-R9W SECTION 8DB

TAXLOT KEY	600, 601, 3200
ACCOUNT NUMBER	22949, 22950, 50706
PROPERTY CLASS	S-2A ZONE / (TOURIST ORIENTED SHORELAND)
STRUCTURE CLASS	601: STRUCTURE CLASS 498 (PARKING LOT)
NEIGHBORHOOD	FOOTING OF BLOCK 134, SHIVELY, W/I THE ASTOR-EAST URBAN RENEWAL DISTRICTY (AEURD) & PORTION OF UNDEVELOPED MARINE DR. ROW
MAINTENANCE AREA	1
AREA (ACRES)	.28 ACRE

PROJECT SCOPE:
THE SCOPE OF WORK FOR GENERAL CONSTRUCTION COVERED IN THESE DOCUMENT INCLUDE SELECTIVE DEMOLITION, SITE PREPARATION, GRADING, PAVING, IRRIGATION AND PLANTING OF THE ASTORIA SCANDINAVIAN HERITAGE PARK AS DEFINED IN THE SPECIAL PROVISIONS DESCRIPTION OF WORK.

THE FOLLOWING STANDARD COMPONENTS WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR:
FLAGPOLES, BENCHES, TRASH / RECYCLE BINS, LED LIGHTING, LANDSCAPE BOULDERS, TRENCH DRAIN, DECORATIVE PAVING.

THE GENERAL CONTRACTOR IS TO COORDINATE WITH THE LANDSCAPE ARCHITECT, OWNER, AND ARTISANS FOR THE PROCUREMENT AND INSTALLATION OF OWNER AND ARTISAN FURNISHED COMPONENTS.

THE FOLLOWING COMPONENTS ARE ARTISAN FURNISHED AND INSTALLED. SHOP DRAWINGS ARE TO BE PROVIDED TO OWNER REP AND REVIEWED BY THE LANDSCAPE ARCHITECT. THE GENERAL CONTRACTOR IS TO SCHEDULE AND COORDINATE INSTALLATION: RUNE STONE PARK SIGNAGE / GRANITE SLAB PARK SIGN, STAINLESS STEEL ARCH, UPRIGHT GRANITE SLABS, INTERPRETIVE SIGNAGE, GRANITE PILLARS, MIDSUMMER POLE, STEAMER TRUNKS, HIDDEN TROLLS, DONOR RECOGNITION MEDALLIONS / PLAQUES. SEE SPECIAL PROVISIONS, SECTION 03095 FOR FULL LIST.

MATERIALS:
STAINLESS STEEL
ALUMINUM
GRANITE
CONCRETE
GRAPHIC BOARD

GENERAL CONDITIONS NOTES

1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:

1.A. THESE GENERAL NOTES, AND CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

1.B. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS. ALL CODES LISTED IN SPECIFICATIONS AND DRAWINGS SHALL BE INCLUSIVE OF ALL CODES, REGULATIONS AND REQUIREMENTS ADOPTED BY THE CITY OF ASTORIA AND THE STATE OF OREGON, INCLUDING ALL AMENDMENTS.
2. SOURCE OF BASE INFORMATION IS S & F LAND SERVICES AND GEOENGINEERS AND IS ASSUMED TO BE CORRECT. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
3. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
4. CONTACT LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION, PRIOR TO COMMENCING WORK.
5. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND, IF NECESSARY, THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER.



ZONING REQUIREMENTS

SITE ZONED: PARK

- ADA PARKING SPACE

(1) ACCESSIBLE PARKING SPACE (VAN) REQUIRED

(1) ACCESSIBLE PARKING SPACE (VAN) PROVIDED

- SIGNAGE - ALL SIGNAGE TO BE REVIEWED BY ODOT

(2) PARK SIGN - LOGO INSCRIBED RUNE STONE

(1) PARK SIGN - 12' GRANITE SLAB

(3) ADA PARKING SIGN

(3) PARK RULES SIGN

(2) RAIL CROSSING SIGN
- MITIGATION REQUIREMENTS
- TREE REMOVAL:
1. 7" DIA. PICEA GLAUCA / WHITE SPRUCE

CONDITION: DANGEROUS TREE - DEAD /DYING

2. 3" DIA. PINUS STROBUS 'PENDULA' / WEEPING WHITE PINE

CONDITION: FAIR

3. 17" DIA. PINUS CONTORTA/ LODGEPOLE PINE

CONDITION: GOOD

4. 9" DIA. PINUS CONTORTA/ LODGEPOLE PINE

CONDITION: GOOD

5. 12" DIA. PINUS CONTORTA/ LODGEPOLE PINE

CONDITION: FAIR / POOR
- TREE REPLACEMENT REQUIREMENT
- 1:1 REPLACEMENT RATIO, TREES TO BE PLANTED ON SITE TBD BY CITY
- GENERAL NOTES
1. ABBREVIATIONS, SYMBOLS, AND DIMENSIONING NOTES ARE DESCRIBED ON THIS SHEET.

2. ROUGH-IN DIMENSIONS: VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR, SUBCONTRACTOR, OWNER OR OTHERS.

3. DO NOT SCALE DRAWINGS. WRITTEN DIMENSION GOVERN. VERIFY ALL EXISTING DIMENSIONS AND NOTIFY THE LANDSCAPE ARCHITECT IF DISCREPANCIES ARE FOUND.

4. ORIGINAL DRAWING SIZE IS 22" X 34". DRAWINGS MAY BE DISTRIBUTED IN OTHER FORMS AND OTHER SIZES. DRAWINGS SCALES ARE BASED ON ORIGINAL SIZED DRAWINGS AND WILL VARY IF SMALLER DRAWINGS ARE USED.

5. GENERAL CONTRACTOR & SUBCONTRACTORS ARE TO COORDINATE THEIR WORK WITH ALL DOCUMENTS PROVIDED, THIS INCLUDES BUT IS NOT LIMITED TO LANDSCAPE, CIVIL, & STRUCTURAL PLANS & SPECIFICATIONS

6. UNLESS NOTED OTHERWISE DIMENSIONS ARE TO THE CENTERLINE OF COLUMNS OR GRID FACE OF CONCRETE (NOMINAL)

7. ALL HEIGHTS ARE DIMENSIONED FROM THE TOP OF THE ADJACENT PAVING UNLESS NOTED OTHERWISE.

8. THE TERM "EQUAL" OR "EQ" IS USED IN LIEU OF ACTUAL DIMENSIONS WHERE EQUAL SPACING OF ELEMENTS IS REQUIRED.

9. ELECTRICAL LAYOUT PLAN TO BE FURNISHED BY CERTIFIED ELECTRICAL CONTRACTOR PRIOR TO START OF CONSTRUCTION.

10. SEE SPECIFICATIONS AND CITY OF ASTORIA REQUIREMENTS FOR ADDITIONAL INFORMATION.

11. SHOULD A DISCREPANCY BETWEEN CITY OF ASTORIA STANDARDS AND THE SPECIFICATIONS/DRAWINGS ARISE, CONTRACTOR IS TO DEFER TO CITY OF ASTORIA CODE AND STANDARDS.
-
- 1 VICINITY MAP
- TABLE OF ABBREVIATIONS
- | | | | | | |
|--------|--------------------------|-------|---------------------------|-------|----------------------|
| APPROX | APPROXIMATE | FL | FLOW LINE | REINF | REINFORCE(D) |
| ARCH | ARCHITECT | FOW | FACE OF WALL | REQ'D | REQUIRED |
| AVG | AVERAGE | FT | FOOT (FEET) | REV | REVISION, REVISED |
| B+B | BALLED AND BURLAPPED | FTG | FOOTING | ROW | RIGHT OF WAY |
| BF | BOTTOM OF FOOTING | GA | GAUGE | RT | RIGHT |
| BLDG | BUILDING | GAL | GALVANIZED | S | SOUTH |
| BM | BENCHMARK | GEN | GENERAL | SS | SANITARY SEWER |
| BOC | BACK OF CURB | HORIZ | HORIZONTAL | SCH | SCHEDULE |
| BR | BOTTOM OF RAMP | HP | HIGH POINT | SD | STORM DRAIN |
| BS | BOTTOM OF STEP | HT | HEIGHT | SEC | SECTION |
| BW | BOTTOM OF WALL | ID | INSIDE DIAMETER | SF | SQUARE FOOT (FEET) |
| CAL | CALIPER | INV | INVERT ELEVATION | SHT | SHEET |
| CAP | CAPACITY | IN | INCH(ES) | SIM | SIMILAR |
| CF | CUBIC FEET | INCL | INCLUDE(D) | SNT | SEALANT |
| CHAM | CHAMFER | IRR | IRRIGATION | SPECS | SPECIFICATIONS |
| CIP | CAST IN PLACE | JT | JOINT | SQ | SQUARE |
| CJ | CONTROL JOINT | LIN | LINEAR | ST | STORM SEWER |
| CL | CENTER LINE | LF | LINEAR FEET | SY | SQUARE YARD |
| CLR | CLEARANCE | LP | LOW POINT | STA | STATION |
| CM | CENTIMETER | LT | LIGHT | STD | STANDARD |
| CO | CLEAN OUT | MATL | MATERIAL | STL | STEEL |
| COMP | COMPACTED | MAX | MAXIMUM | STRL | STRUCTURAL |
| CONC | CONCRETE | MEMB | MEMBRANE | SYM | SYMMETRICAL |
| CONST | CONSTRUCTION | MD | MAIN DISCONNECT SWITCH | T&B | TOP AND BOTTOM |
| CONT | CONTINUOUS | MH | MANHOLE | TBC | TOP OF BACK CURB |
| CONTR | CONTRACT | MIN | MINIMUM | TBD | TO BE DETERMINED |
| CY | CUBIC YARD | MISC | MISCELLANEOUS N NORTH | TC | TOP OF CURB |
| DEMO | DEMOLISH, DEMOLITION | NIC | NOT IN CONTRACT NO NUMBER | TF | TOP OF FOOTING |
| DIA | DIAMETER | NOM | NOMINAL | TRANS | ELECTRIC TRANSFORMER |
| DIM | DIMENSION | NTS | NOT TO SCALE | TOC | TOP OF CONCRETE |
| DTL | DETAIL | OC | ON CENTER | TOPO | TOPOGRAPHY |
| DWG | DRAWING | OD | OUTSIDE DIAMETER | TR | TOP OF RAMP |
| E | EAST | OPP | OPPOSITE | TSL | TOP OF SLAB |
| EA | EACH | PAR | PARALLEL | TS | TOP OF STEPS |
| EJ | EXPANSION JOINT | PC | POINT OF CURVATURE | TW | TOP OF WALL |
| EL | ELEVATIONOR CU CUBIC | PE | POLYURETHANE | TYP | TYPICAL |
| ELEC | ELECTRICAL | PERF | PERFORATED | VAR | VARIES |
| ENG | ENGINEER | PED | PEDESTRIAN | VERT | VERTICAL |
| EQ | EQUAL | PI | POINT OF INTERSECTION | VEH | VEHICLE |
| EQUIP | EQUIPMENT | PL | PROPERTY LINE | VOL | VOLUME |
| EST | ESTIMATE | PT | POINT, POINT OF TANGENCY | W/ | WITH |
| EW | EACH WAY | PVC | POLYVINYL CHLORIDE | W/I | WITHIN |
| EXIST | EXISTING | PVMT | PAVEMENT | W/O | WITHOUT |
| EXP | EXPANSION, EXPOSED | PVR | PAVER | WT | WEIGHT |
| FFE | FINISHED FLOOR ELEVATION | QTY | QUANTITY | WWF | WELDED WIRE FABRIC |
| FG | FINISHED GRADE | R | RADIUS | YD | YARD |
| FIN | FINISH | REF | REFERENCE | @ | AT |
- PROJECT TEAM:
- THE WEST STUDIO
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- BRIAN BUSIEK, PE, Senior Engineer
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503.213.2013
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9925 S.W. Nimbus Avenue, Suite 110
Beaverton, Oregon 97008-7592
503.213.2013
- SURVEYOR:
GEOTECHNICAL ENGINEER:
LIGHTING CONSULTANT:

S&F LAND SERVICES
GEO ENGINEERS
STOLLER LIGHTING.
- | | | |
|-----------------------|----------|------------|
| DRAWING ISSUE | | DATE |
| 100% ENGINEERED PLANS | | 02/01/2019 |
| No. | REVISION | DATE |
| | | |
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| | | |
| NOT FOR CONSTRUCTION | | |
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- | | |
|-----------------------|----------------------|
| DESIGNED:
M. BJORK | DRAWN:
M. BJORK |
| DESIGNED:
P. SOREY | DRAWN:
P. SOREY |
| DESIGNED:
A. WEST | DRAWN:
N. PRICE |
| CHECKED:
- | APPROVED:
A. WEST |
-
- PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103
- CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103
- ASTORIA SCANDINAVIAN
HERITAGE PARK
GENERAL INFORMATION
- | | |
|-------------|----------|
| SCALE: | AS SHOWN |
| PROJECT NO: | 18002 |
| DRAWING NO: | G1.01 |
| SHEET NO: | 1 OF 49 |
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TOPOGRAPHIC SURVEY

FOR SCANDINAVIAN HERITAGE PARK
LOCATED IN THE NW 1/4 OF THE SE1/4 OF SECTION 8,
TOWNSHIP 8 NORTH, RANGE 9 WEST OF THE WILLAMETTE
MERIDIAN,
CITY OF ASTORIA, CLATSOP COUNTY, OREGON

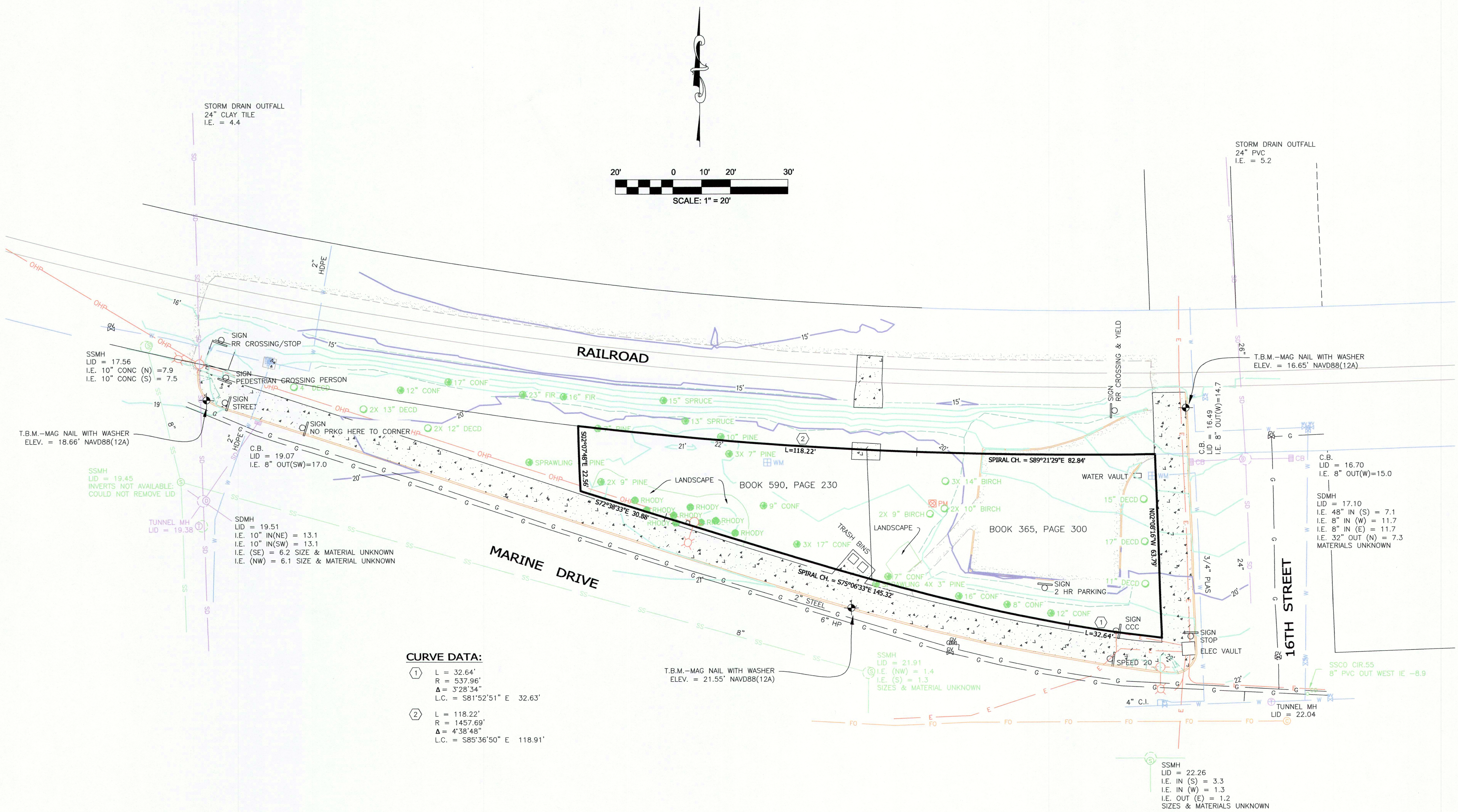
AUGUST 10, 2018

BASIS OF BEARINGS/HORIZONTAL DATUM:

OREGON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (3601), NAD 83 (1991)
AS DETERMINED BY GPS OBSERVATIONS.

BASIS OF ELEVATIONS:

NORTH AMERICAN VERTICAL DATUM OF 1988, GEOID 12A (NAVD88(12A)) AS
DETERMINED BY GPS OBSERVATIONS.



- LEGEND:**
- DENOTES FOUND MONUMENT AS NOTED, VISITED OCTOBER, 2017, SEE FOUND MONUMENTS TABLE
 - XXX DENOTES FOUND MONUMENT NUMBER, SEE FOUND MONUMENTS TABLE
 - ▢ DENOTES CATCH BASIN
 - ⊙ DENOTES COMMUNICATION MANHOLE
 - ⊕ DENOTES GAS VALVE
 - ⊗ DENOTES POWER METER
 - ⊖ DENOTES POWER POLE
 - ⊙ DENOTES POWER POLE WITH STREET LIGHT
 - ⊙ DENOTES SANITARY SEWER MANHOLE
 - ⊙ DENOTES STORM SEWER MANHOLE
 - ⊙ DENOTES SHRUB
 - ⊙ DENOTES SIGN
 - ⊙ DENOTES CONIFER TREE
 - ⊙ DENOTES DECIDUOUS TREE
 - ⊙ DENOTES WATER METER
 - ⊙ DENOTES WATER VALVE

- DENOTES EDGE OF ASPHALT PAVING
- DENOTES CONCRETE
- DENOTES CONCRETE CURB
- FO DENOTES FIBER OPTIC LINE
- G DENOTES GAS LINE
- SS DENOTES SANITARY SEWER LINE
- SD DENOTES STORM DRAIN LINE
- OHP DENOTES OVERHEAD POWER LINE
- E DENOTES UNDERGROUND POWER LINE
- W DENOTES WATER LINE

NOTES:

- THE LOCATION OF EXISTING UNDERGROUND UTILITY FACILITIES SHOWN HEREON ARE BASED ON LOCATE MARKS REQUESTED FOR THIS SURVEY PER ONE CALL PUBLIC LOCATE TICKET 18194316 AND UTILITY INFORMATION PROVIDED BY THE CITY OF ASTORIA. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES BY THE RESPECTIVE UTILITY OWNERS, NOR FOR THE EXISTENCE OF BURIED OBJECTS WHICH ARE NOT SHOWN ON THE PLAN. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- UTILITY LOCATIONS ARE QUALITY LEVEL B.
- FIELD WORK WAS COMPLETED ON AUGUST 10, 2018.

REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JANUARY 20, 1989
GARY P. CHRISTERSON
2377

RENEWALS: DECEMBER 31, 2019

ASTORIA SCANDINAVIAN HERITAGE PARK

S&F Land Services

PORTLAND 4838 SW SCHOLLS FERRY RD. STE A
PORTLAND, OR 97221 (503) 345-6338
BEND 61296 SOUTH HWY 97
STE 207, BEND, OR 97702
(541) 797-0954
GEARHART 42334 HWY 101 N.
GEARHART, OR 97138
(503) 738-3425

WWW.SFLANDS.COM

Scale: 1" = 20'
Drawn By: CC
Date Plotted: AUG. 10, 2018
Drawing Name: 2018-G070-01TOPO.dwg

JOB NUMBER
18G070001
SHEET
1 OF 1

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VERIFIED BY: / DATE: /

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ABBREVIATIONS

APPROX	APPROXIMATE
AVE	AVENUE
AVG	AVERAGE
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
BW	BOTTOM OF WALL AT FINISHED GRADE
CB	CATCH BASIN
C/L	CENTERLINE
COA	CITY OF ASTORIA
COMM	COMMUNICATION
CONC	CONCRETE
CONST	CONSTRUCT, CONSTRUCTION
CO	CLEANOUT
CP	CONTROL POINT
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DI	DUCTILE IRON
DIA	DIAMETER
DR	DRIVE
DWG	DRAWING
E	EAST, EASTING
EA	EACH
EL	ELEVATION
EX	EXISTING
FT	FEET/FOOT
GB	GRADE BREAK
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HT	HEIGHT
IE	INVERT ELEVATION
IN	INCH/INCHES
L	LENGTH
LARCH	LANDSCAPE ARCHITECTURE PLANS
LF	LINEAL FOOT/FEET
MAX	MAXIMUM
MIL	MILLIMETER
MIN	MINIMUM
N	NORTH/NORTHING
NA	NOT APPLICABLE
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OHW	ORDINARY HIGH WATER
ODOT	OREGON DEPARTMENT OF TRANSPORTATION
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RD	ROAD
REF	REFERENCE
ROW	RIGHT-OF-WAY
S	SOUTH, SLOPE
SD	STORM DRAIN
SPEC	SPECIFICATION
SR	STATE ROUTE
ST	STORM SEWER
STA	STATION
STD	STANDARD
TCP	TRAFFIC CONTROL PLAN
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	WEST, WATER
WSE	WATER SURFACE ELEVATION

LEGEND:

LIMITS OF WORK	- - - - -	REMOVE CONCRETE PAVEMENT	
TEMPORARY CONSTRUCTION FENCE	_____ x _____	REMOVE TREE	
SEDIMENT BARRIER	- III - III - III -	28" CONES AT 20' O.C.	
STAGING AND STOCKPILING		48" X 48" SIGN WITH FLAGS	
STORM DRAIN INLET PROTECTION		FLAGGER	
TREE PROTECTION		WORK ZONE	
MAJOR CONTOUR	_____ 12 _____		
MINOR CONTOUR	_____		
GRADE BREAK	- - - - -		
STORM DRAIN PIPE	_____ SD _____		
STORM DRAIN CLEANOUT			
SIGN			
INFILTRATION TRENCH			
DETECTABLE WARNING SURFACE			

GENERAL CONSTRUCTION:

- ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF OREGON STATE DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CITY OF ASTORIA ENGINEERING DESIGN AND DEVELOPMENT STANDARDS, AND ALL OTHER CODES APPLICABLE UNLESS SPECIFICALLY INDICATED OTHERWISE BY THESE PLANS.
- IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.
- A COPY OF THE APPROVED PLANS SHALL BE ONSITE DURING CONSTRUCTION.
- CONTRACTOR SHALL NOT COMMENCE WORK UNTIL WRITTEN AUTHORIZATION TO PROCEED HAS BEEN PROVIDED BY OWNER.
- A PRE CONSTRUCTION MEETING AND A 24-HOUR NOTICE IS REQUIRED PRIOR TO STARTING NEW CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE THE PRE CONSTRUCTION MEETING WITH ALL CONCERNED PARTIES (OWNER AND ENGINEER).
- FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN HEREIN SHALL NOT BE CONSTRUCTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- APPROVAL OF THESE DRAWINGS DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION NOT SPECIFICALLY SHOWN. THESE PLANS ARE FOR SITE, DRAINAGE, AND UTILITY IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS PARK ELEMENTS AND RETAINING WALLS MAY REQUIRE A SEPARATE REVIEW AND APPROVAL BY THE CITY OF ASTORIA PRIOR TO CONSTRUCTION.
- ALL AREAS OUTSIDE OF THE DESIGNATED CLEARING LIMITS OF WORK SHALL NOT BE DISTURBED AND SHALL BE LEFT IN THE CURRENT STATE. NO CLEARING, GRADING, FILLING, BUILDING CONSTRUCTION OR PLACEMENT, OR ROAD CONSTRUCTION OF ANY KIND SHALL OCCUR WITHIN THESE AREAS. NO ADJUSTMENT TO THE BOUNDARY OF ANY SUCH AREA SHALL OCCUR WITHOUT FURTHER ENVIRONMENTAL REVIEW AND WRITTEN PERMISSION FROM THE ENGINEER. ANY AREAS OUTSIDE OF THE CLEARING LIMITS THAT ARE DISTURBED SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.
- CONSTRUCTION NOISE SHALL BE LIMITED TO 7 A.M. TO 7 P.M. ON WEEKDAYS AND 9 A.M. TO 6 P.M. ON WEEKENDS AND LEGAL HOLIDAYS.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES:

PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN A VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS. ALL STORM DRAIN INLETS AND RECEIVING WATERS SHALL BE PROTECTED SUCH THAT STORMWATER SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. ALL DAMAGES INCURRED TO PUBLIC AND/OR PRIVATE PROPERTY BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPAIRED TO ORIGINAL CONDITION.

- THE IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. TESC FACILITIES SHALL BE ADDED, MODIFIED, REPAIRED, OR REPLACED AS NEEDED, OR AT THE DIRECTION OF THE ENGINEER, FOR UNEXPECTED STORM EVENTS AND TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, RELOCATION OF COMPOST SOCKS, PERIMETER PROTECTION, ETC.).
- TESC FACILITIES SHALL BE CONSTRUCTED PRIOR TO ALL CLEARING AND GRADING ACTIVITIES TO PREVENT SEDIMENT TRANSPORT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES.
- TESC FACILITIES SHALL BE INSPECTED DAILY AND MAINTAINED AS NECESSARY.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN OR OTHER SEDIMENT COLLECTION FACILITY.
- ALL CATCH BASINS WITHIN THE PROJECT LIMITS SHALL BE CLEANED OUT PRIOR TO COMMENCING WORK AND ANY MATERIAL REMOVED SHALL BE PROPERLY DISPOSED. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- THE CONTRACTOR SHALL SUPPLY DETAILS ON CONSTRUCTION TIMING, HAUL ROUTES AND CONSTRUCTION ENTRANCES, AND GROUND STABILIZATION AT THE REQUEST OF THE ENGINEER.
- ANY MISCELLANEOUS DRAINAGE SOURCES OR PIPES FOUND SHALL BE REQUIRED TO BE REMOVED OR CONNECTED TO THE NEW DRAINAGE SYSTEM PER THE DIRECTION AND APPROVAL OF THE ENGINEER.
- ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR THREE DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH APPROVED TESC METHODS (E.G. SEEDING AND MULCHING, PLASTIC COVERING, ETC.).
- SAWCUTTING SLURRY AND CUTTINGS SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS AND SHALL BE PROPERLY DISPOSED. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PAVEMENT OVERNIGHT.
- THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT OF GREATER THAN 0.5 INCH DEPTH IN 24 HOURS.
- PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT ONTO PAVED ROADWAYS. IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, THE PAVEMENT SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY OR AT THE DIRECTION OF THE ENGINEER. CLEANING SHALL CONSIST OF REMOVAL OF SEDIMENT FROM PAVEMENT BY SHOVELING, SWEEPING, OR VACUUM SWEEPER VEHICLE AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. FLUSHING OF STREETS SHALL NOT BE ALLOWED.

SITE PREPARATION:

- THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A SPILL PREVENTION, CONTROL, AND COUNTERMEASURES PLAN (SPCC PLAN) FOR ALL FUELS, PETROLEUM PRODUCTS AND HAZARDOUS MATERIALS. PLAN SHALL INCLUDE IDENTIFICATION OF RESPONSIBLE PERSONNEL, SPILL REPORTING CONTACTS, POTENTIAL SPILL SOURCES, AND SPILL PREVENTION AND SPILL RESPONSES MEASURES.
- TEMPORARY TRAFFIC CONTROL MEASURES SHALL BE EMPLOYED IN ACCORDANCE WITH ODOT TEMPORARY TRAFFIC CONTROL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING UTILITY LOCATIONS WHETHER OR NOT THESE UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO ANY UTILITY. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL INCLUDING PROTECTION OF ALL ADJACENT PROPERTIES FROM SEDIMENT DEPOSITION.

- TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED WHERE SHOWN ON PLANS. NEITHER CLEARING OF ANY VEGETATION NOR GRADING ARE ALLOWED OUTSIDE OF THE DESIGNATED LIMITS OF WORK. NO ADJUSTMENTS TO THESE LIMITS SHALL OCCUR WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- THE CONTRACTOR SHALL CLEAR, GRUB, AND REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE. UNSUITABLE MATERIAL EXCAVATED FROM THE SITE SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE, AND PROPERLY DISPOSED OF AT A DISPOSAL SITE APPROVED BY THE CITY OF ASTORIA AND THE LOCAL AGENCY HAVING JURISDICTION FOR THAT SITE.

SITE WORK:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY INCLUDING PROTECTION OF WORK AND SITE AGAINST VANDALISM, THEFT, AND UNAUTHORIZED ACCESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING.
- ALL DISTURBED LAWN AND VEGETATED AREAS NOT OTHERWISE MODIFIED BY THE SITE PLAN WILL BE RESTORED TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL PERFORM, PROTECT, AND REPLACE (IF NECESSARY) ALL NECESSARY CONSTRUCTION STAKING.
- THE CONTRACTOR SHALL IMPLEMENT ALL REQUIRED TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS AND SIGNS PER ODOT STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- TRENCH EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT WITHOUT PERMISSION FROM THE CITY OF ASTORIA.
- CONNECT NEW CONSTRUCTION TO EXISTING AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

POST CONSTRUCTION:

- THE CONTRACTOR SHALL PERFORM FINAL CLEANUP INCLUDING REMOVAL OF ALL EQUIPMENT, UNUSED MATERIALS, AND DEBRIS WITHIN THE PROJECT LIMITS, BEFORE THE PROJECT IS CONSIDERED COMPLETE.
- A FINAL INSPECTION AND A 48-HOUR NOTICE SHALL BE REQUIRED AFTER COMPLETION OF WORK AND FINAL CLEANUP. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE THE FINAL INSPECTION WITH ALL CONCERNED PARTIES.

DRAWING ISSUE		DATE
100% ENGINEERING DRAWINGS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: O. SKLENAR	DRAWN: L. TURNIDGE
DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK



PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK		SCALE: AS SHOWN
CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND		PROJECT NO: 18002
		DRAWING NO: C0.00
		SHEET NO: 3 OF 49

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DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
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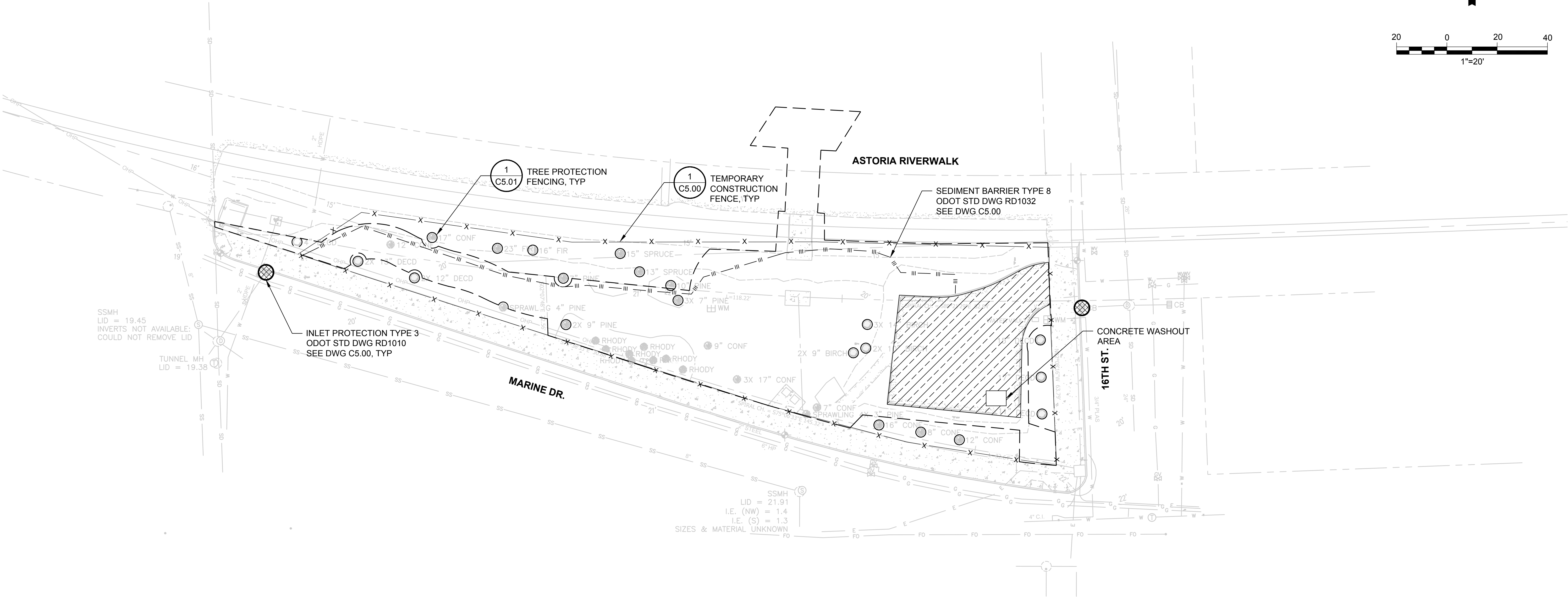
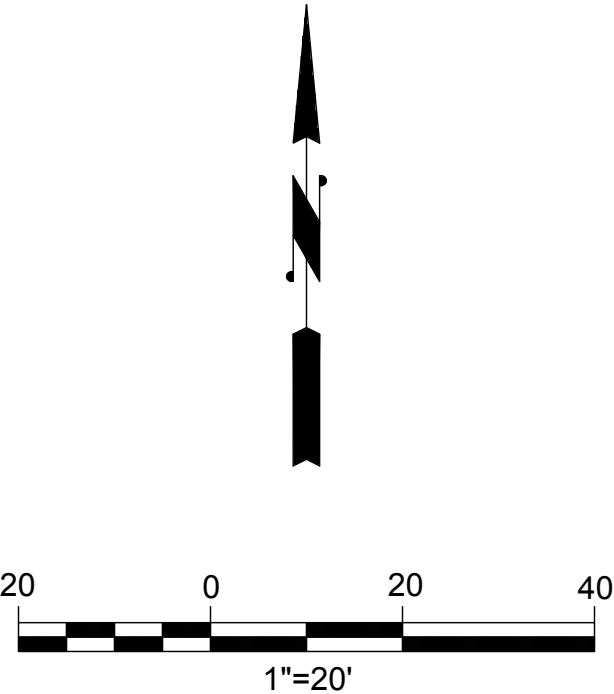
PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
TESC PLAN

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C1.00
SHEET NO: 4 OF 49

NOTES:

1. SEE DWG C0.00 FOR CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.



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DESIGNED: B. BUSIEK	DRAWN:
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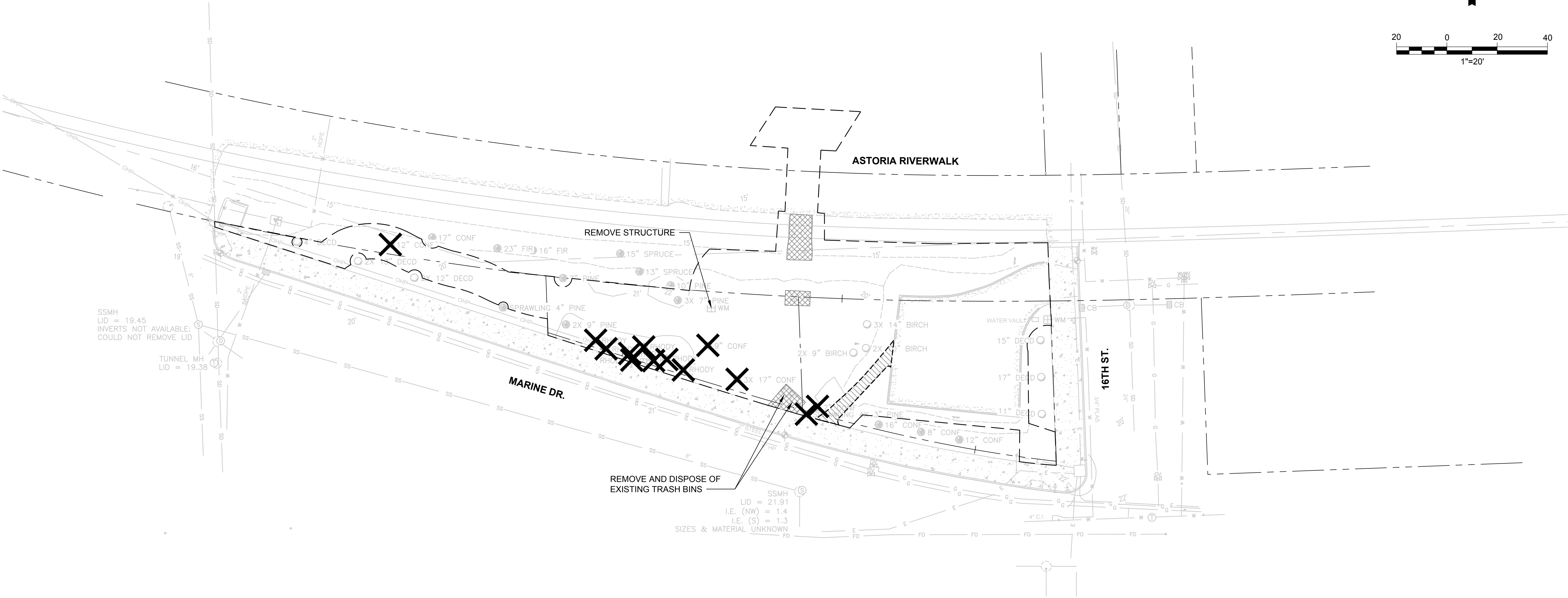
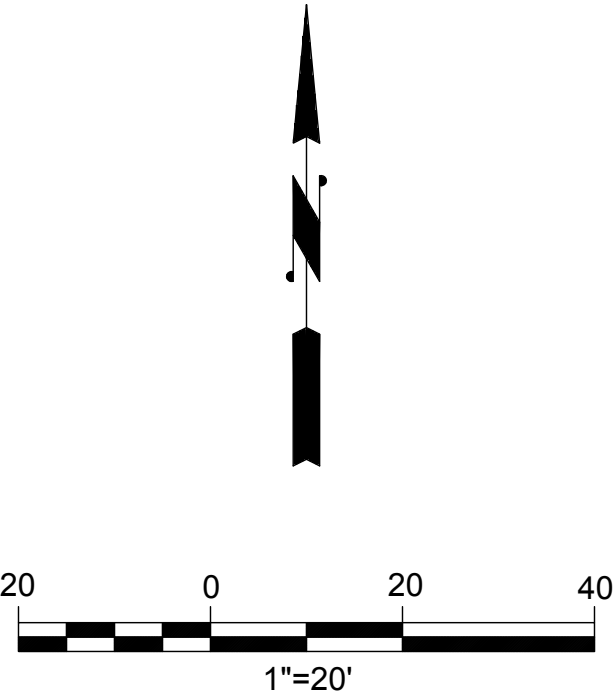


PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
SITE DEMOLITION PLAN

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C2.00
SHEET NO: 5 OF 49

- NOTES:**
- SEE DWG C0.00 FOR CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.



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DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

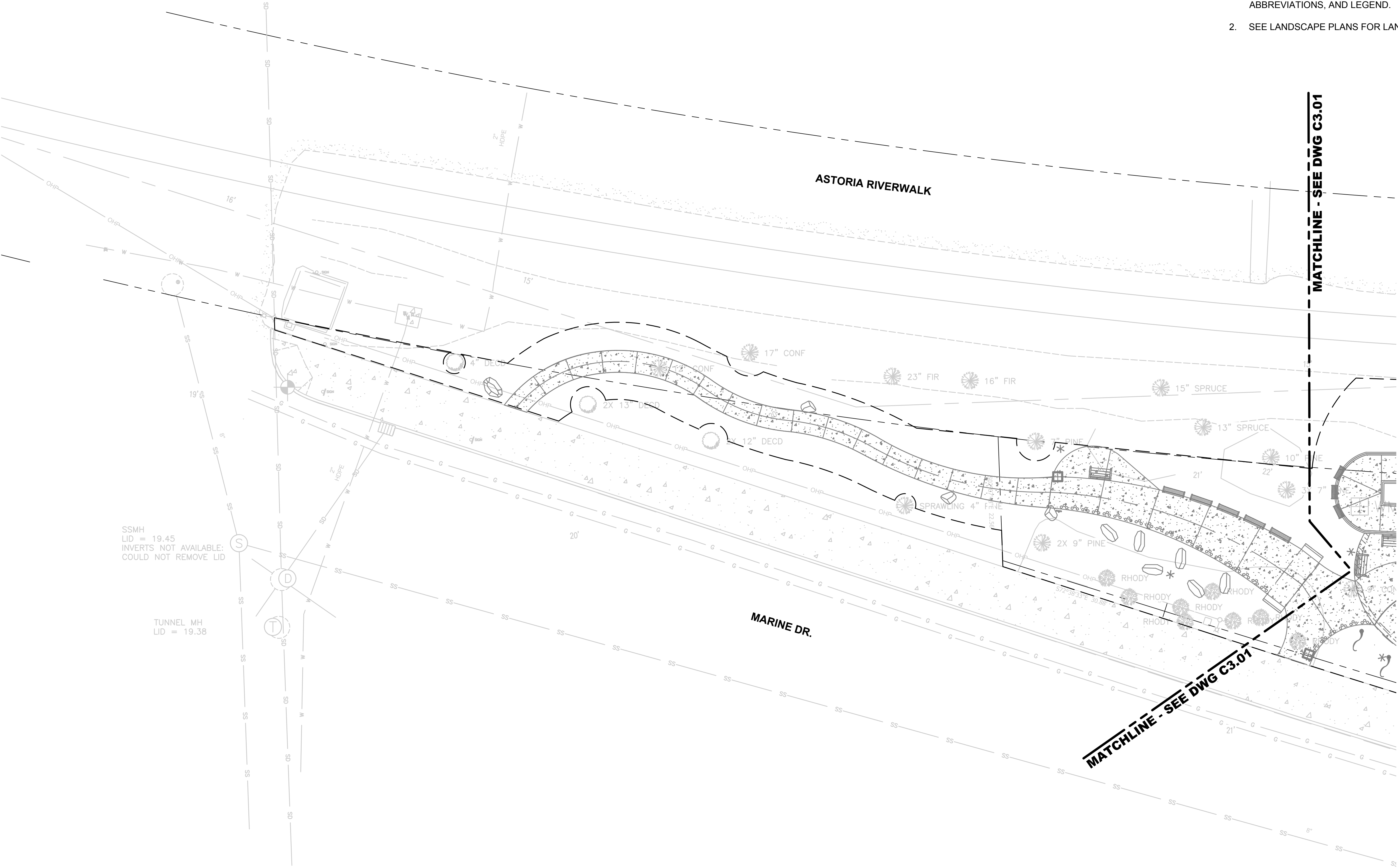
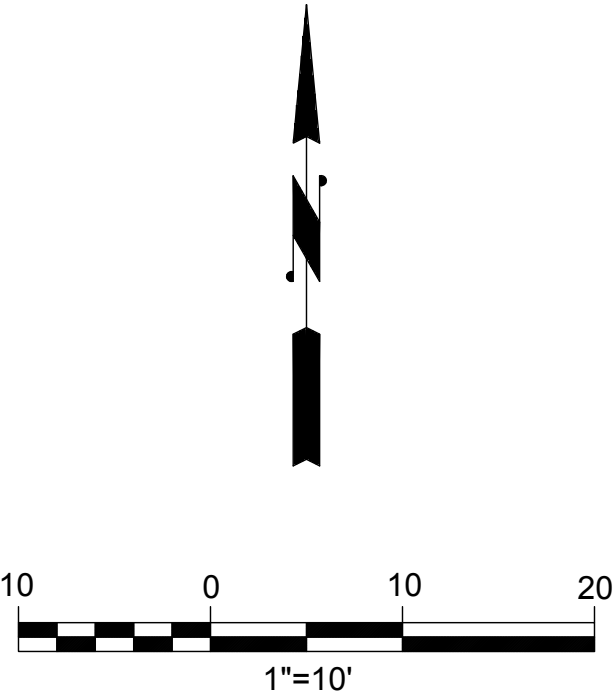
ASTORIA SCANDINAVIAN
HERITAGE PARK

SITE LAYOUT, PAVING, AND STRIPING PLAN -
WEST

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	C3.00
SHEET NO:	6 OF 49

NOTES:

- SEE DWG C0.00 FOR CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- SEE LANDSCAPE PLANS FOR LANDSCAPE SITE DETAILS.



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DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

SITE LAYOUT, PAVING, AND STRIPING PLAN -
EAST

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C3.01
SHEET NO: 7 OF 49

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"YIELD" SIGN PER MUTCD R1-2,
"LOOK" SIGN PER MUTCD R15-8, AND
RR CROSSBUCK PER MUTCD 15-1
MOUNTED TO A BREAKAWAY SIGN POST,
SEE DWGS C5.20 AND C5.21

MATCHLINE - SEE DWG C3.00

ADA
RAILROAD
CROSSING

1
C5.21

STAGGERED CONTINENTAL
CROSSWALK: 2' x 9' WHITE BARS
INSTALLED PER ODOT STD
PLAN TM530, SEE DWG C5.20

DETECTIBLE WARNING SURFACE
ODOT STD PLAN RD759,
SEE DWG C5.21

"YIELD" SIGN PER MUTCD R1-2,
"LOOK" SIGN PER MUTCD R15-8, AND
RR CROSSBUCK PER MUTCD 15-1
MOUNTED TO A PIPE SIGN SUPPORT
PER ODOT STD DETAIL 4235,
SEE DWGS C5.20 AND C5.21

ASTORIA RIVERWALK

DETECTIBLE WARNING SURFACE
ODOT STD PLAN RD759,
SEE DWG C5.21

DISABLED PARKING DETAIL
(WHITE) SYMBOL PER
ODOT STD PLAN TM500/HC,
SEE DWG C5.20

PI STRIPE
N 937,100.24
E 7,359,860.86

4" WHITE LINE PER ODOT
STD PLAN TM500/W,
SEE DWG C5.20

PI STRIPE
N 937,080.38
E 7,359,858.55

"RESERVED PARKING" SIGN
PER MUTCD R7-8 WITH "VAN
ACCESSIBLE" SIGN PER
MUTCD R7-8P MOUNTED TO A
PIPE SIGN SUPPORT
PER ODOT STD DETAIL 4235
SEE DWG C5.20

34.05' HANDRAIL,
SEE LARCH

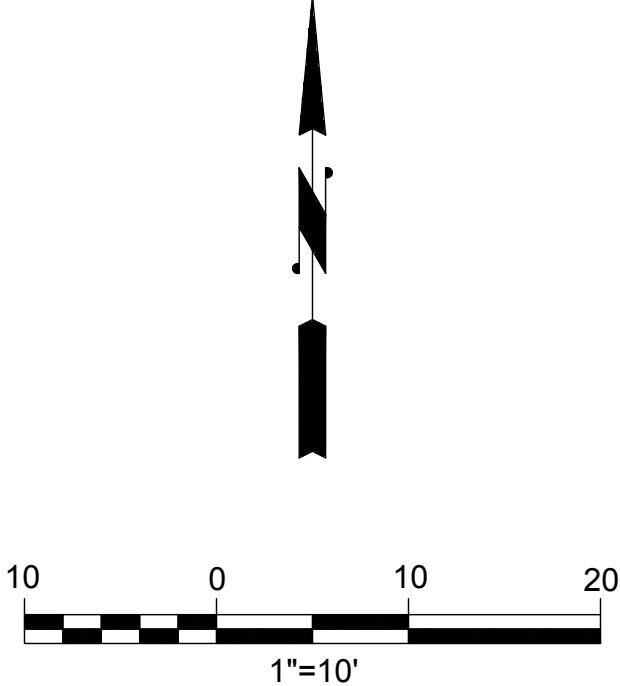
26.37' HANDRAIL,
SEE LARCH

MARINE DR.

SSMH
LID = 21.91
I.E. (NW) = 1.4
I.E. (S) = 1.3
SIZES & MATERIAL UNKNOWN

NOTES:

- SEE DWG C0.00 FOR CIVIL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- SEE LANDSCAPE PLANS FOR LANDSCAPE SITE DETAILS.



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DESIGNED: B. BUSIEK	DRAWN:
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PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

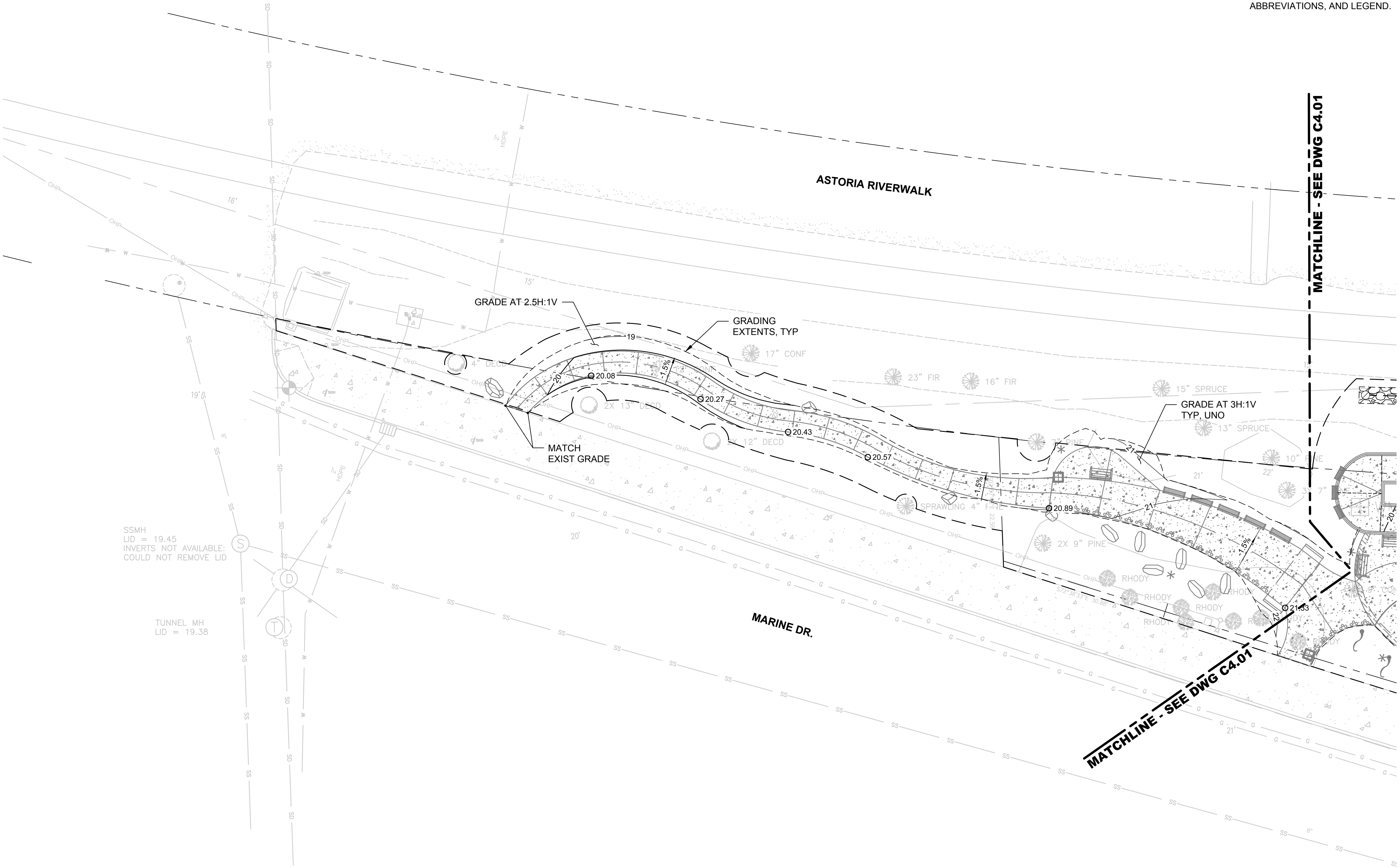
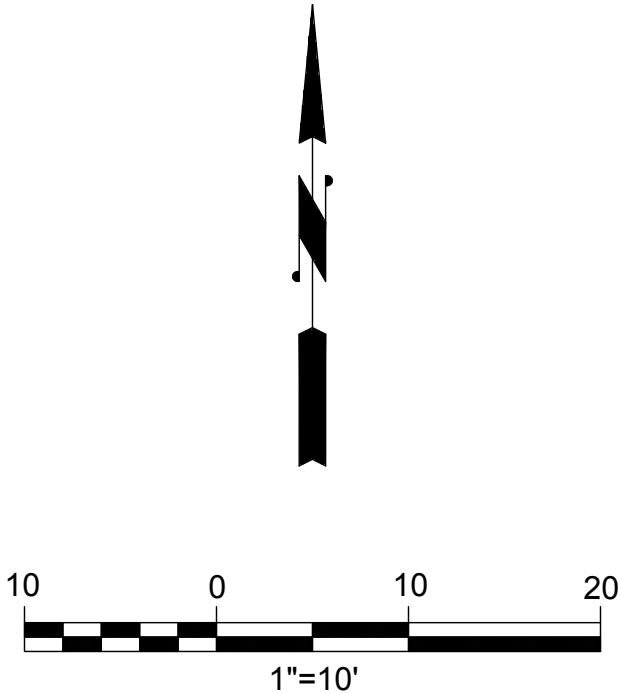
ASTORIA SCANDINAVIAN
HERITAGE PARK
GRADING AND DRAINAGE PLAN - WEST

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	C4.00
SHEET NO:	8 OF 49

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NOTES:

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DESIGNED: B. BUSIEK	DRAWN:
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PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

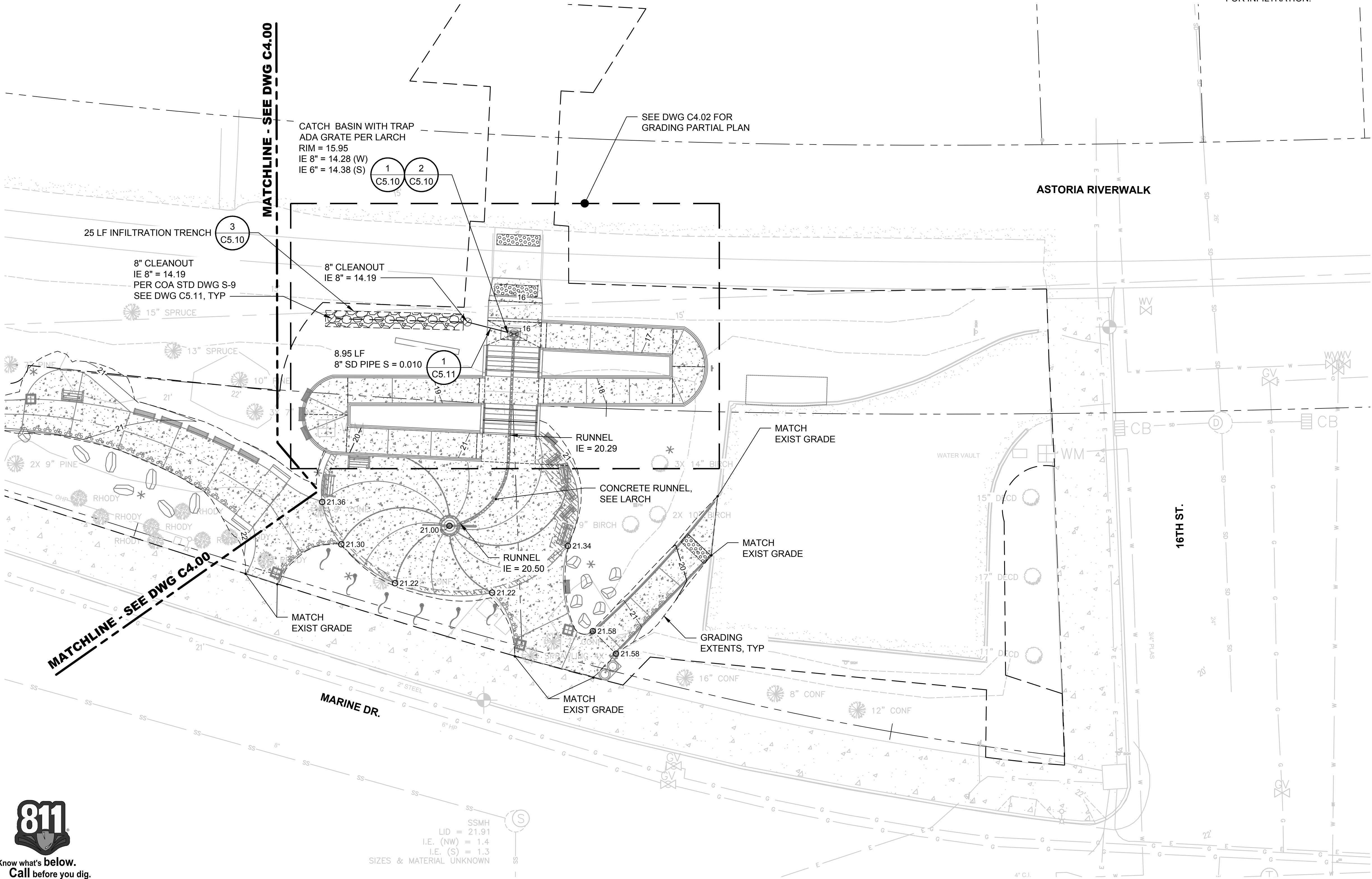
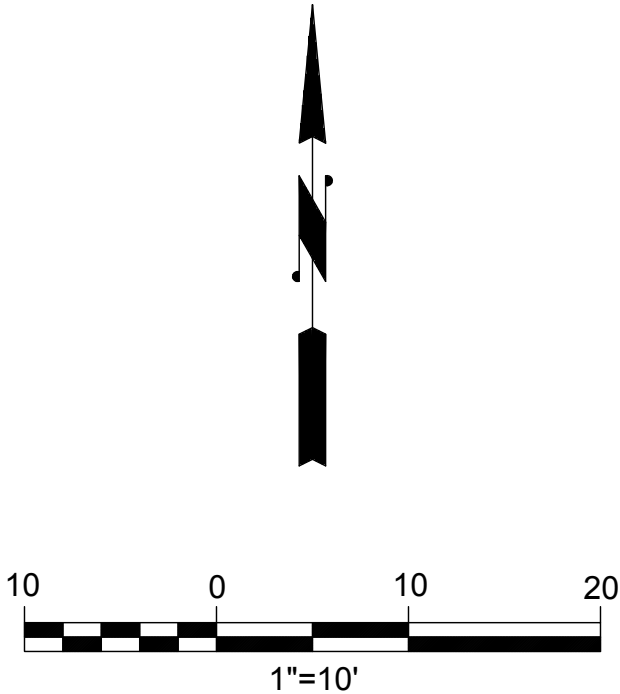
ASTORIA SCANDINAVIAN
HERITAGE PARK
GRADING AND DRAINAGE PLAN - EAST

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C4.01
SHEET NO: 9 OF 49

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NOTES:

- SEE DWG C0.00 FOR ABBREVIATIONS AND LEGEND.
- SEE LANDSCAPE PLANS FOR LANDSCAPE SITE DETAILS.
- CONTRACTOR TO VERIFY WITH ENGINEER THAT SOILS AT INFILTRATION TRENCH LOCATION ARE SUITABLE FOR INFILTRATION.



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DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
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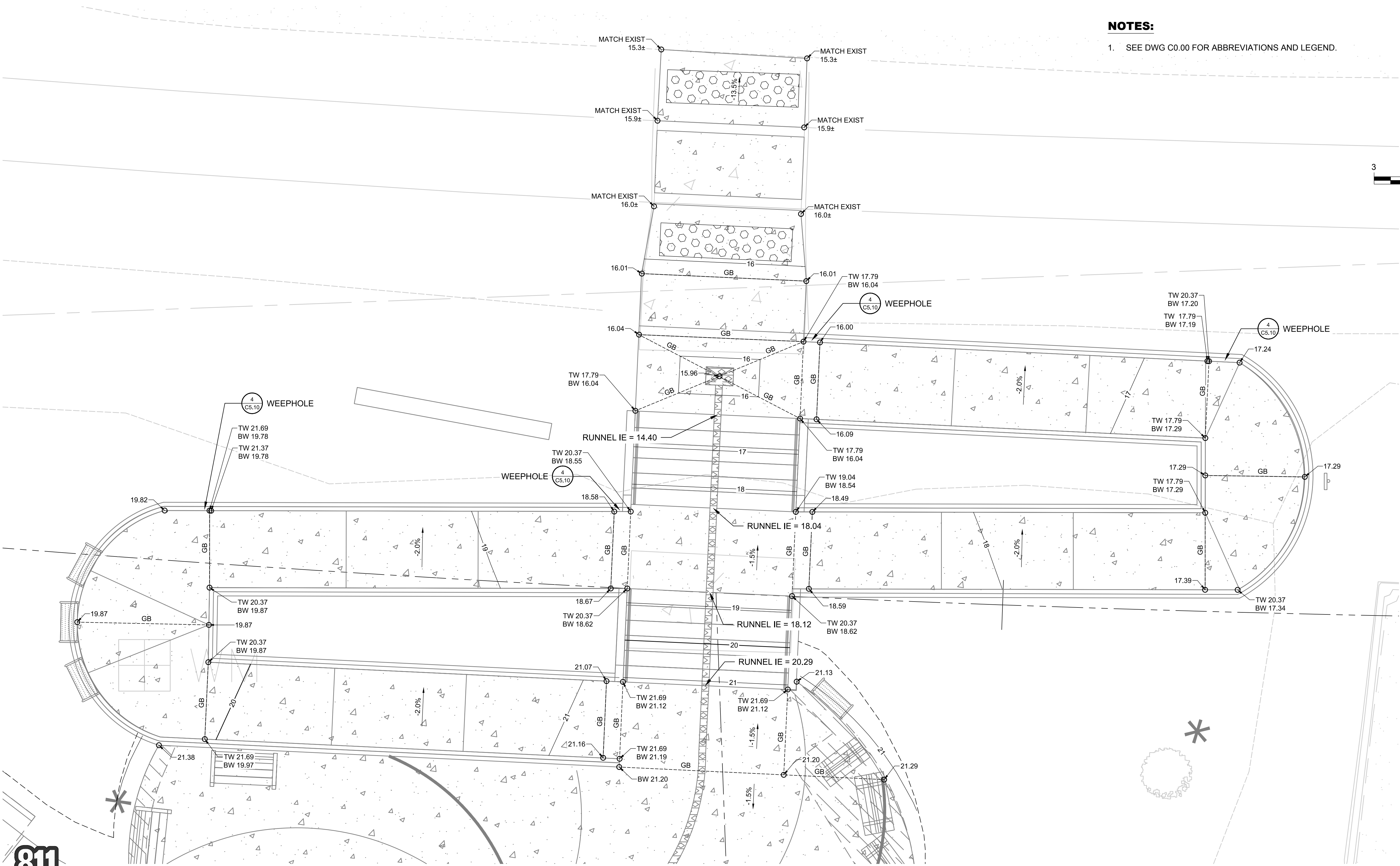
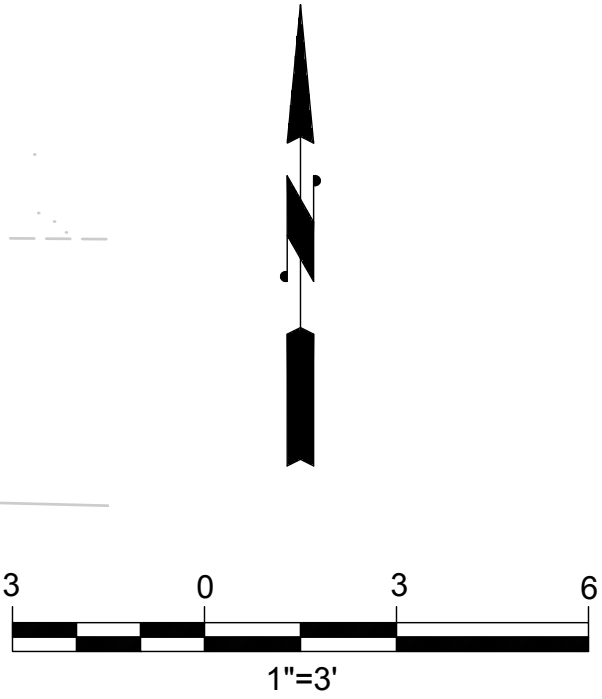
PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
GRADING PARTIAL PLAN

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C4.02
SHEET NO: 10 OF 49

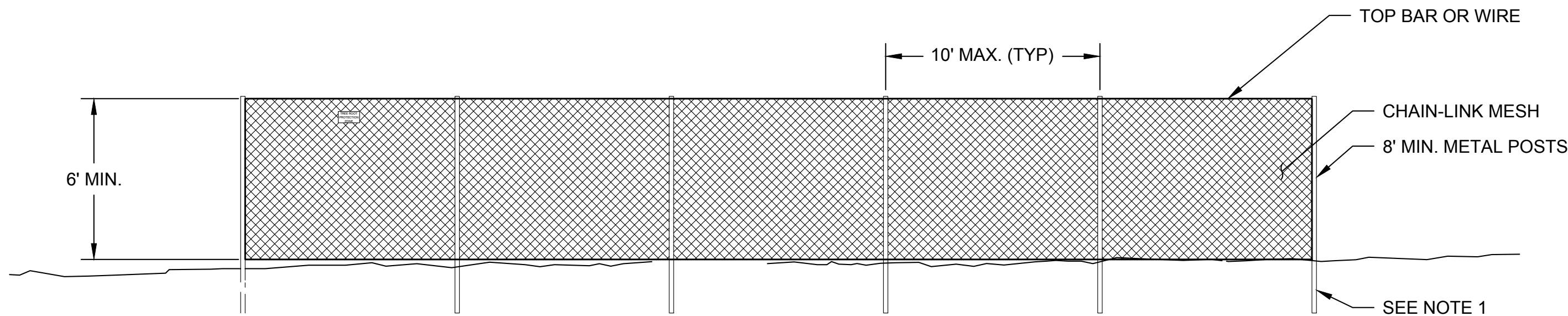
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NOTES:
1. SEE DWG C0.00 FOR ABBREVIATIONS AND LEGEND.



NOTES:

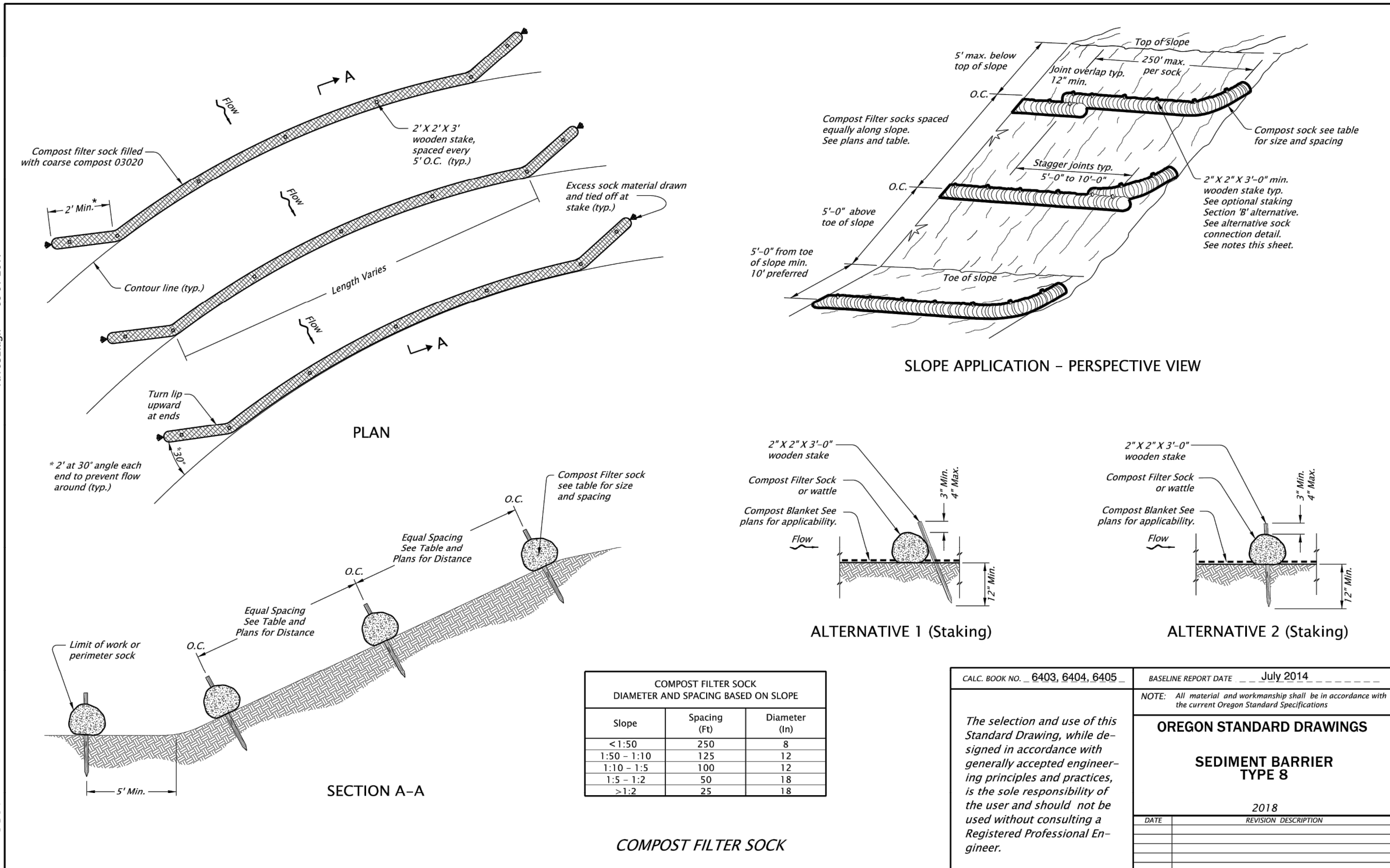
1. INSTALL FENCE PER MANUFACTURER'S INSTRUCTIONS.



DETAIL - TEMPORARY CONSTRUCTION FENCE

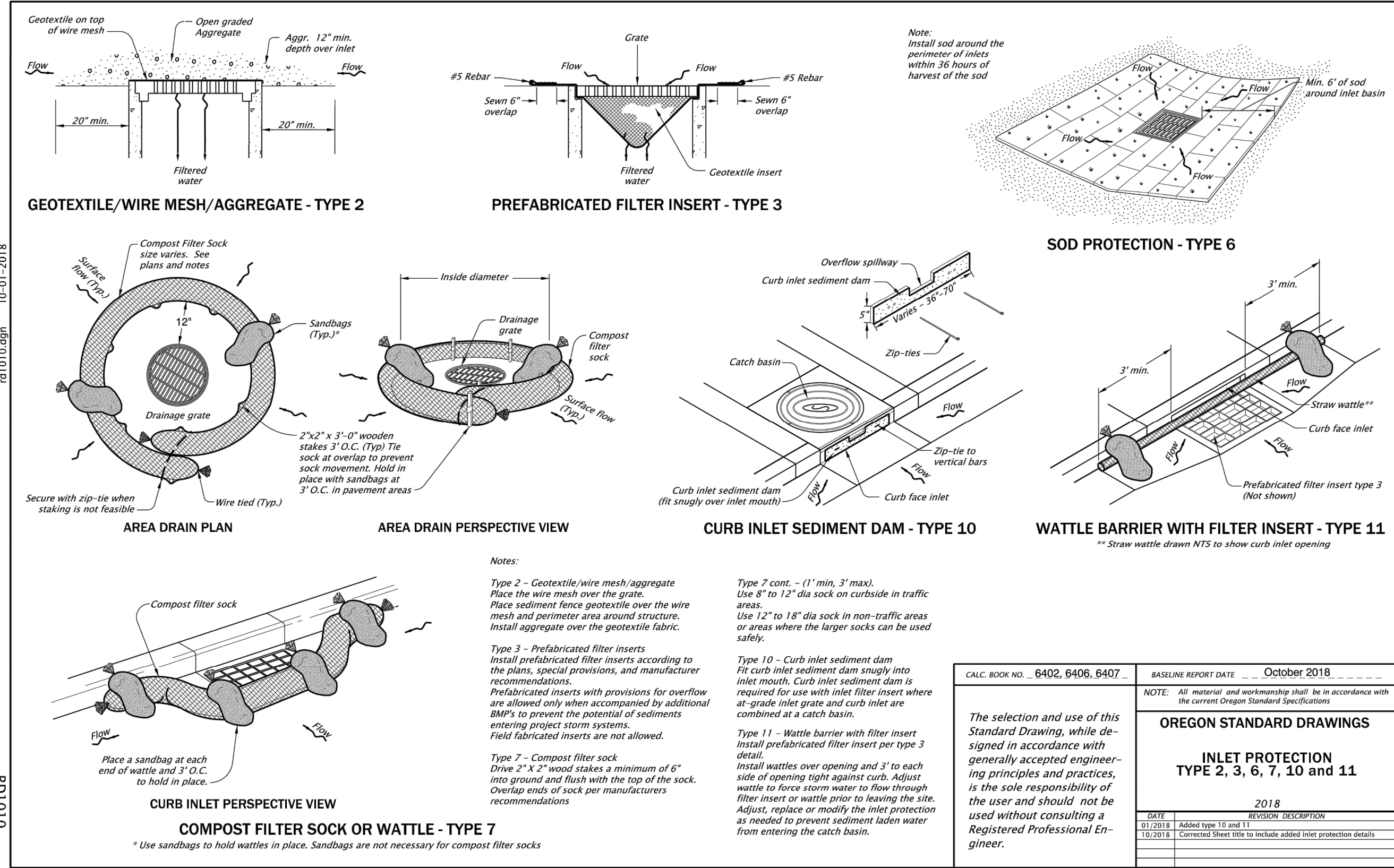
SCALE: NTS

1
C1.00



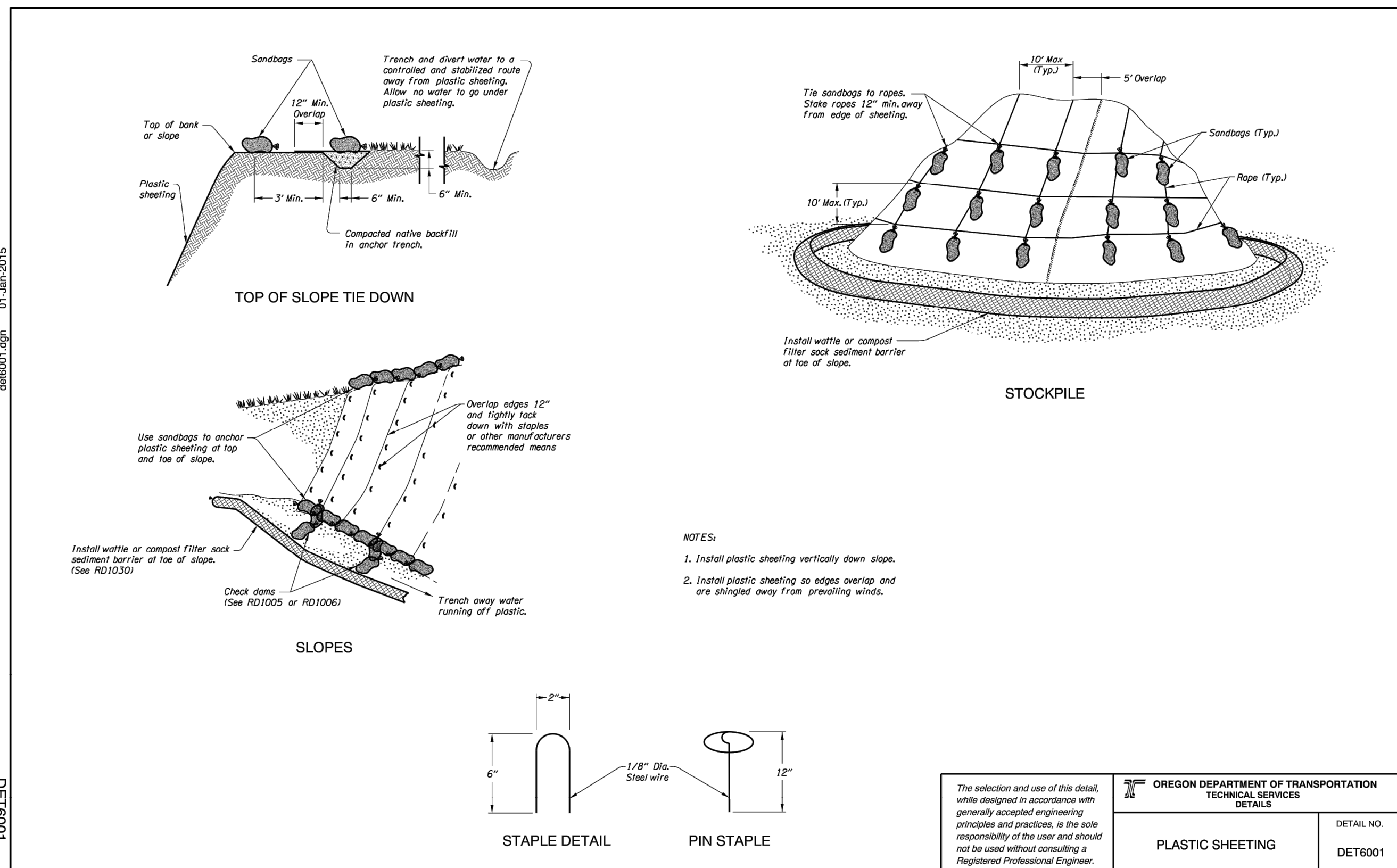
Effective Date: December 1, 2018 - May 31, 2019

RD1032



Effective Date: December 1, 2018 - May 31, 2019

RD1010



- NOTES:
1. Install plastic sheeting vertically down slope.
 2. Install plastic sheeting so edges overlap and are shingled away from prevailing winds.

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DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK



PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
TESC NOTES AND DETAILS 1

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C5.00
SHEET NO: 11 OF 49

ORIGINATED BY: / DATE: /

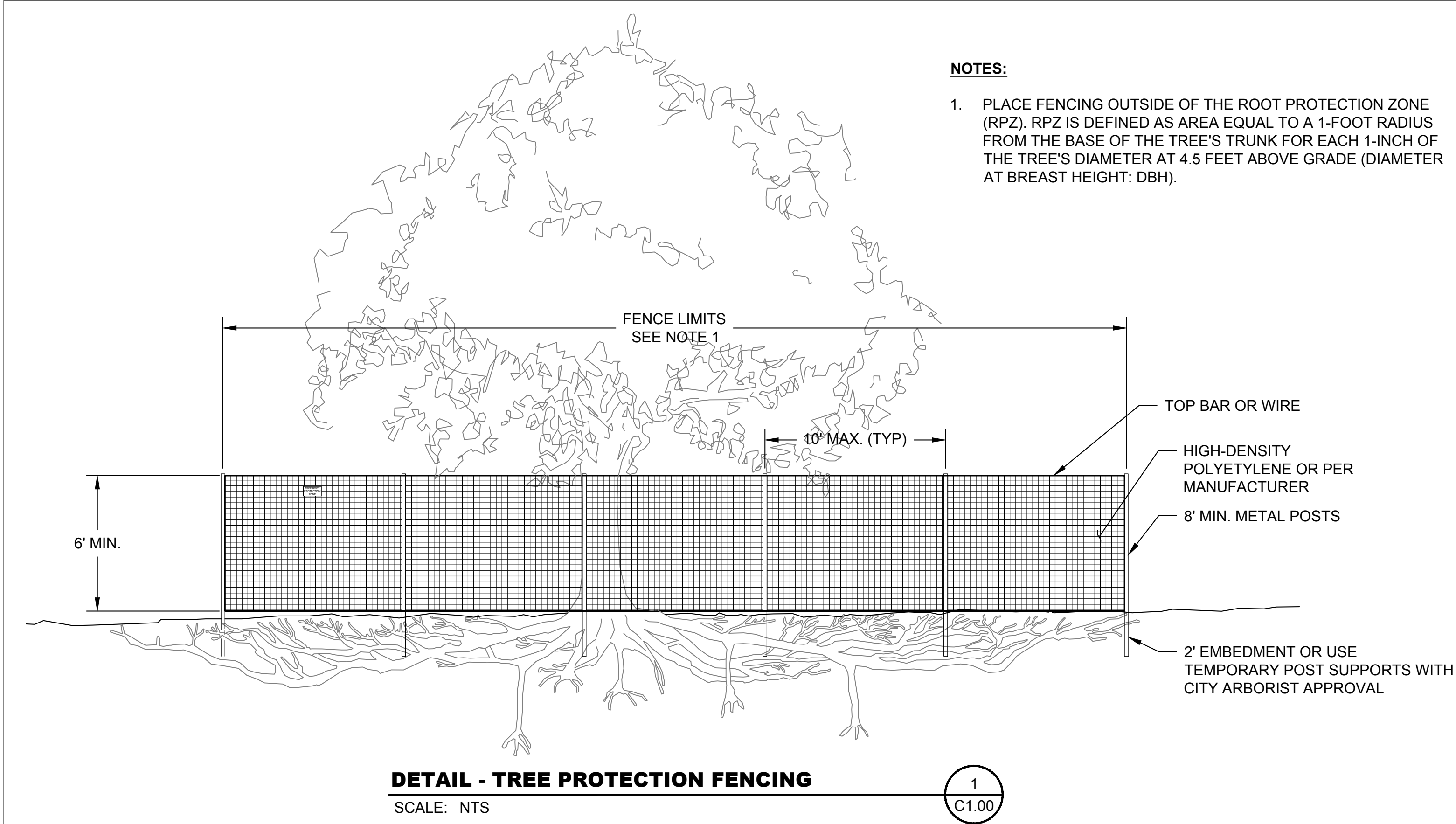
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DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
TESC NOTES AND DETAILS 2

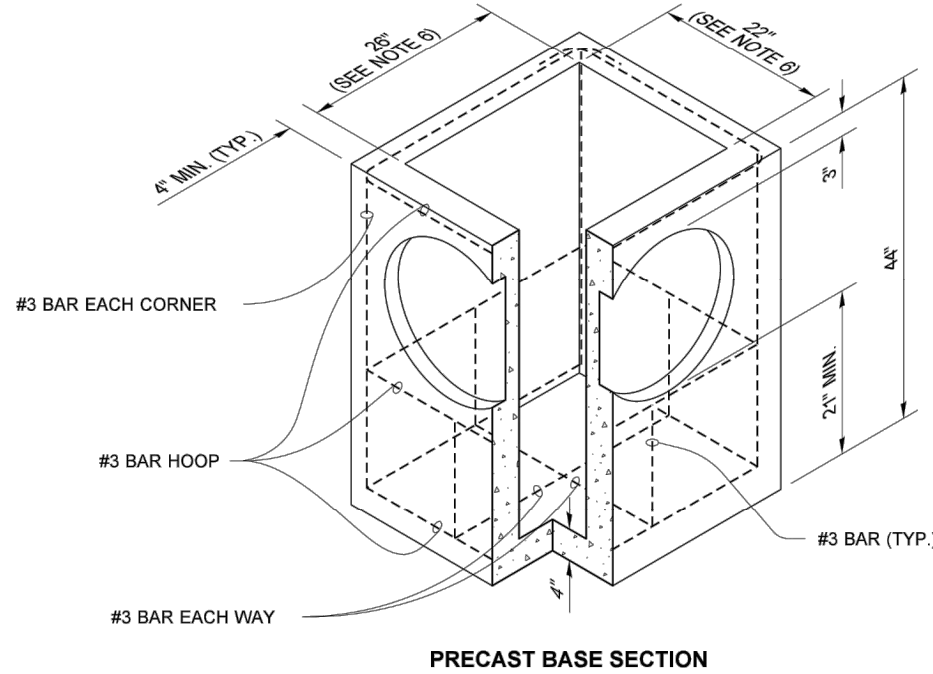
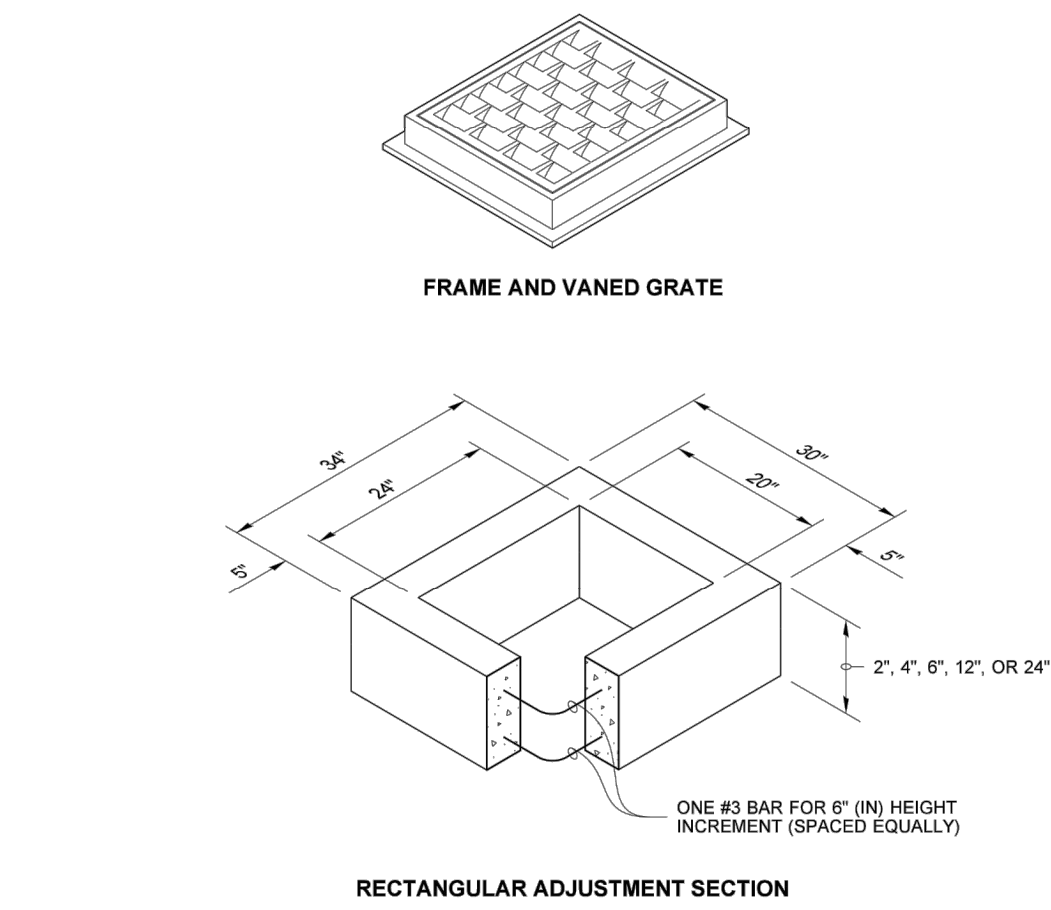
SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	C5.01
SHEET NO:	12 OF 49

ORIGINATED BY: / DATE: /
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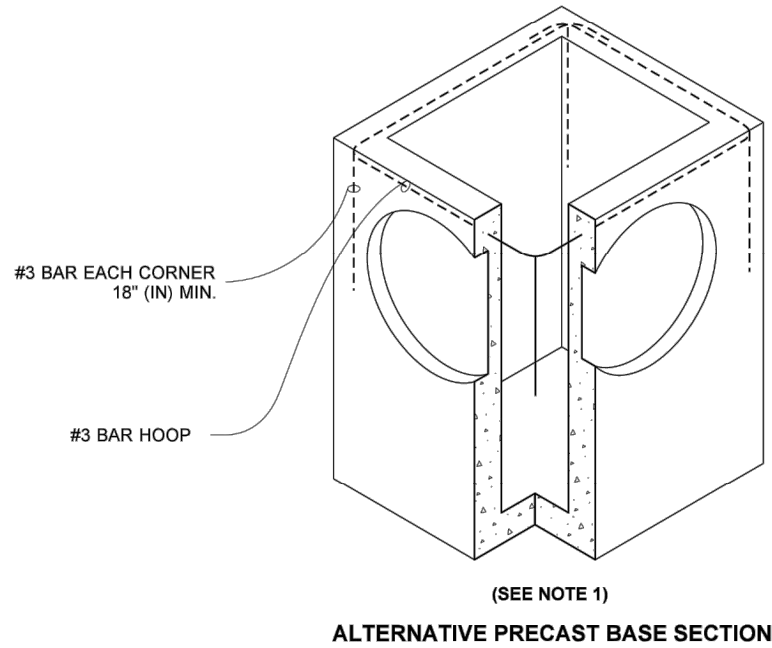
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DRAWN BY: USA CYFORD



PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
GRSSP * (STD. SPEC. SECT. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE



NOTES

- As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3**.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the **Precast Base Section**.
- All pickup holes shall be grouted full after the basin has been placed.

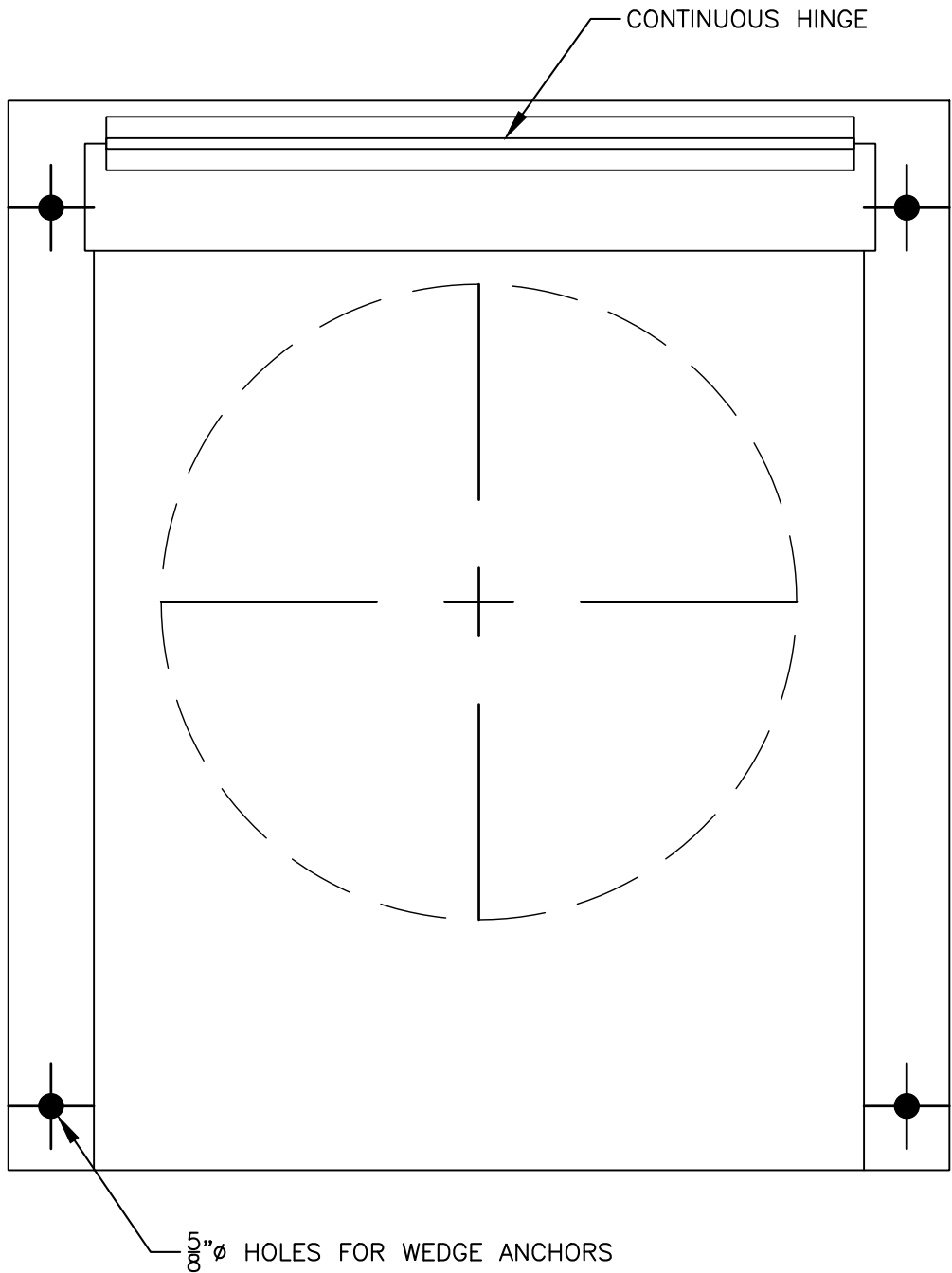


Julie Heilman
Heilman, Julie
Jan 25 2017 2:53 PM
CADD
CATCH BASIN TYPE 1
STANDARD PLAN B-5.20-02
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jan 26 2017 6:48 AM
CADD
STATE DESIGN ENGINEER
Washington State Department of Transportation

DETAIL - CATCH BASIN

SCALE: NTS

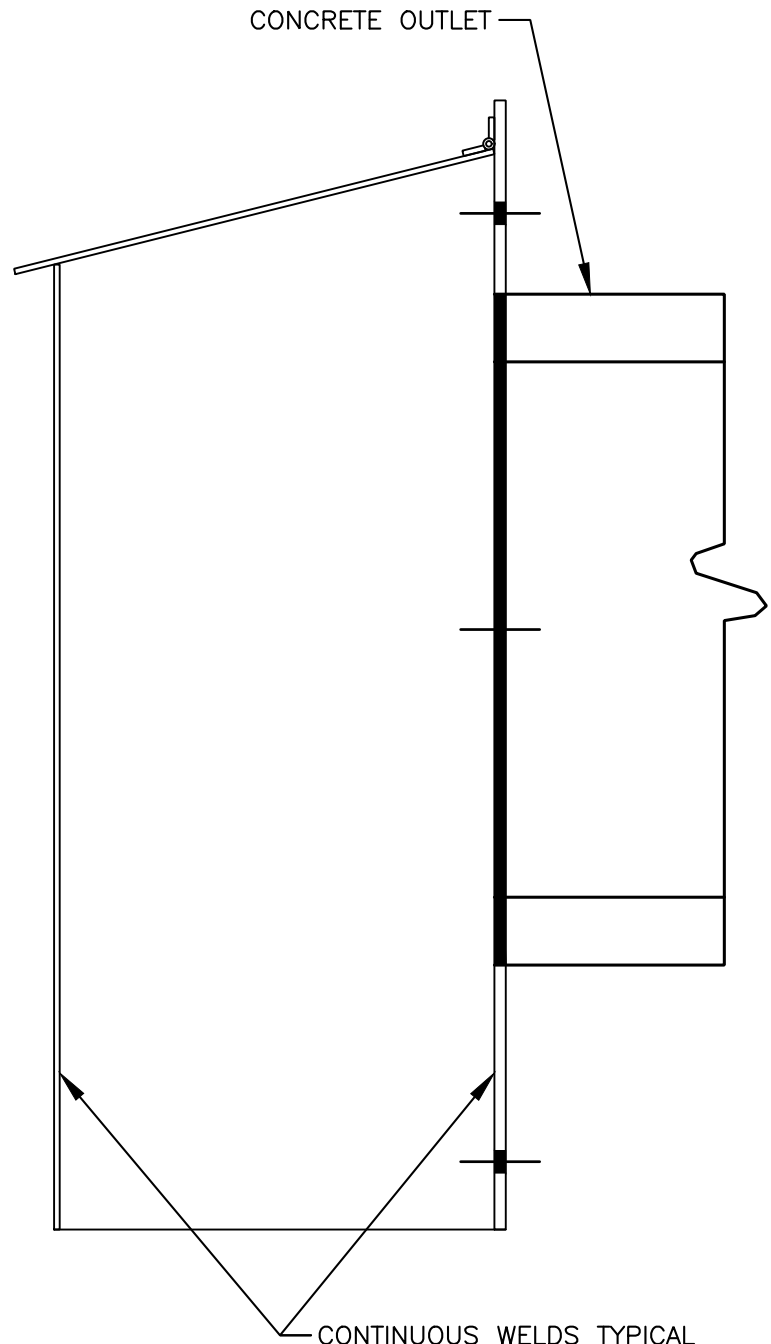
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C4.01



ELEVATION

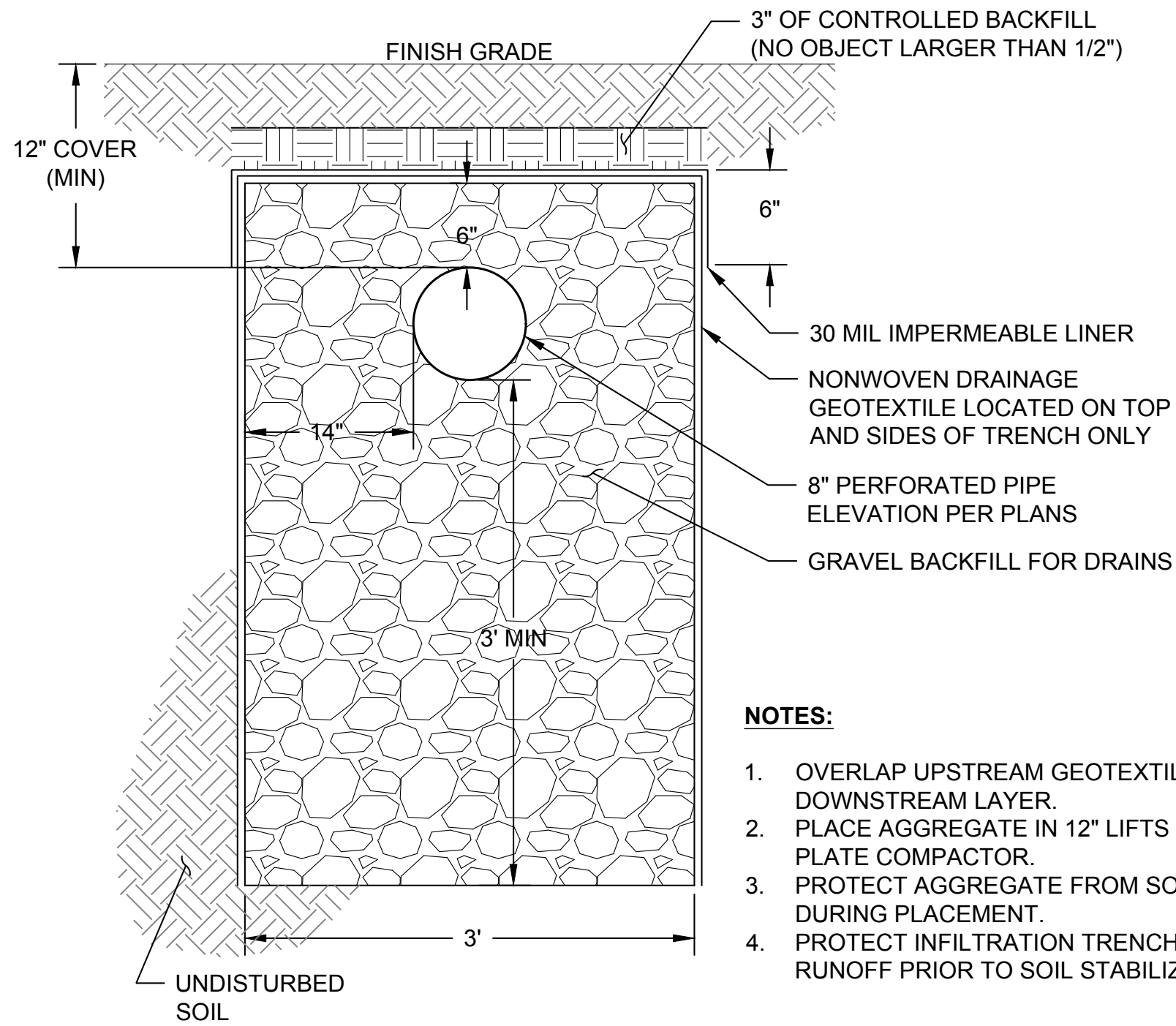
DETAIL - TRAP

SCALE: NTS



SECTION

2
C4.01



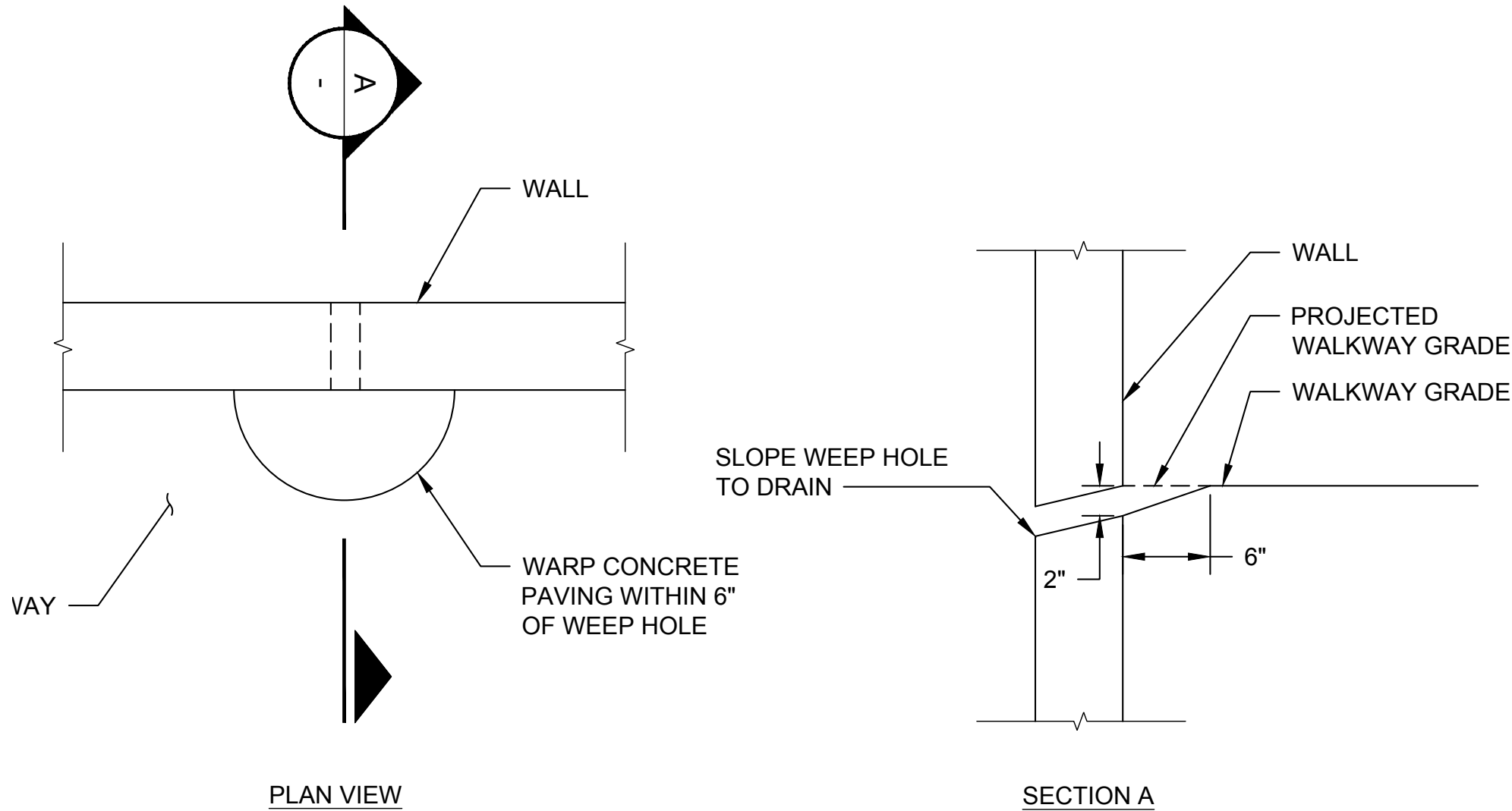
NOTES:

- OVERLAP UPSTREAM GEOTEXTILE 2' MIN. OVER DOWNSTREAM LAYER.
- PLACE AGGREGATE IN 12" LIFTS AND COMPACT WITH PLATE COMPACTOR.
- PROTECT AGGREGATE FROM SOIL CONTAMINATION DURING PLACEMENT.
- PROTECT INFILTRATION TRENCH FROM CONSTRUCTION RUNOFF PRIOR TO SOIL STABILIZATION.

DETAIL - INFILTRATION TRENCH TYPICAL SECTION

SCALE: NTS

3
C4.01



NOTES:

- WEEP HOLE TO BE FORMED WITH 2" PVC PIPE BLOCK OUT.
- REMOVE PVC PIPE AFTER WALL IS CAST.
- GRIND SMOOTH ANY BURRS OR IMPERFECTIONS AFTER WALL AND WALKWAYS ARE CAST.

DETAIL - WEEPHOLE

SCALE: NTS

4
C4.02

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DESIGNED: O. SKLENAR	DRAWN: L. TURNIDGE
DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
DRAINAGE DETAILS 1

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: C5.10
SHEET NO: 13 OF 49

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DRAWING ISSUE		DATE
100% ENGINEERING DRAWINGS		02/01/2019
No.	REVISION	DATE
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DESIGNED: O. SKLENAR	DRAWN: L. TURNIDGE
DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK

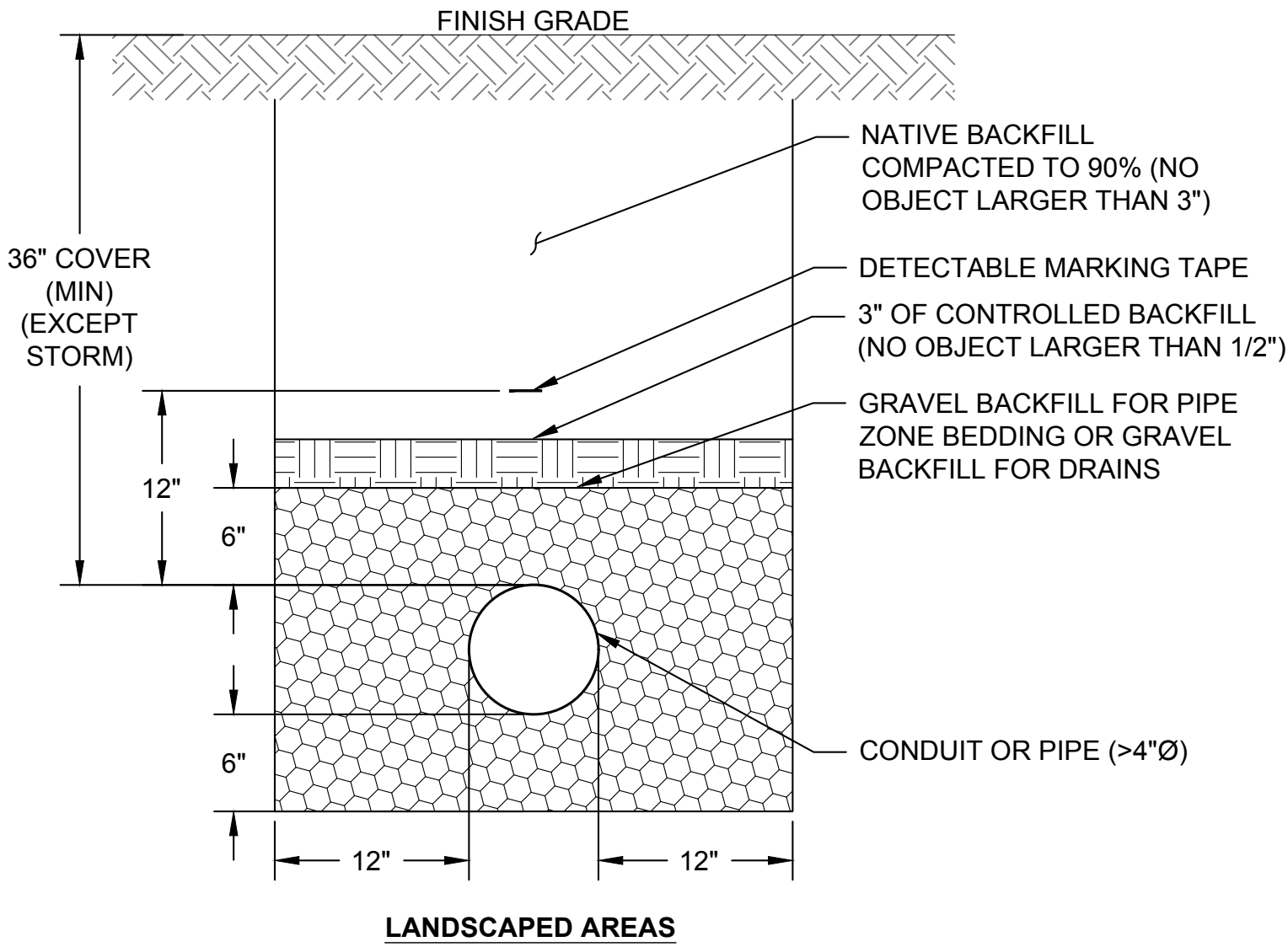
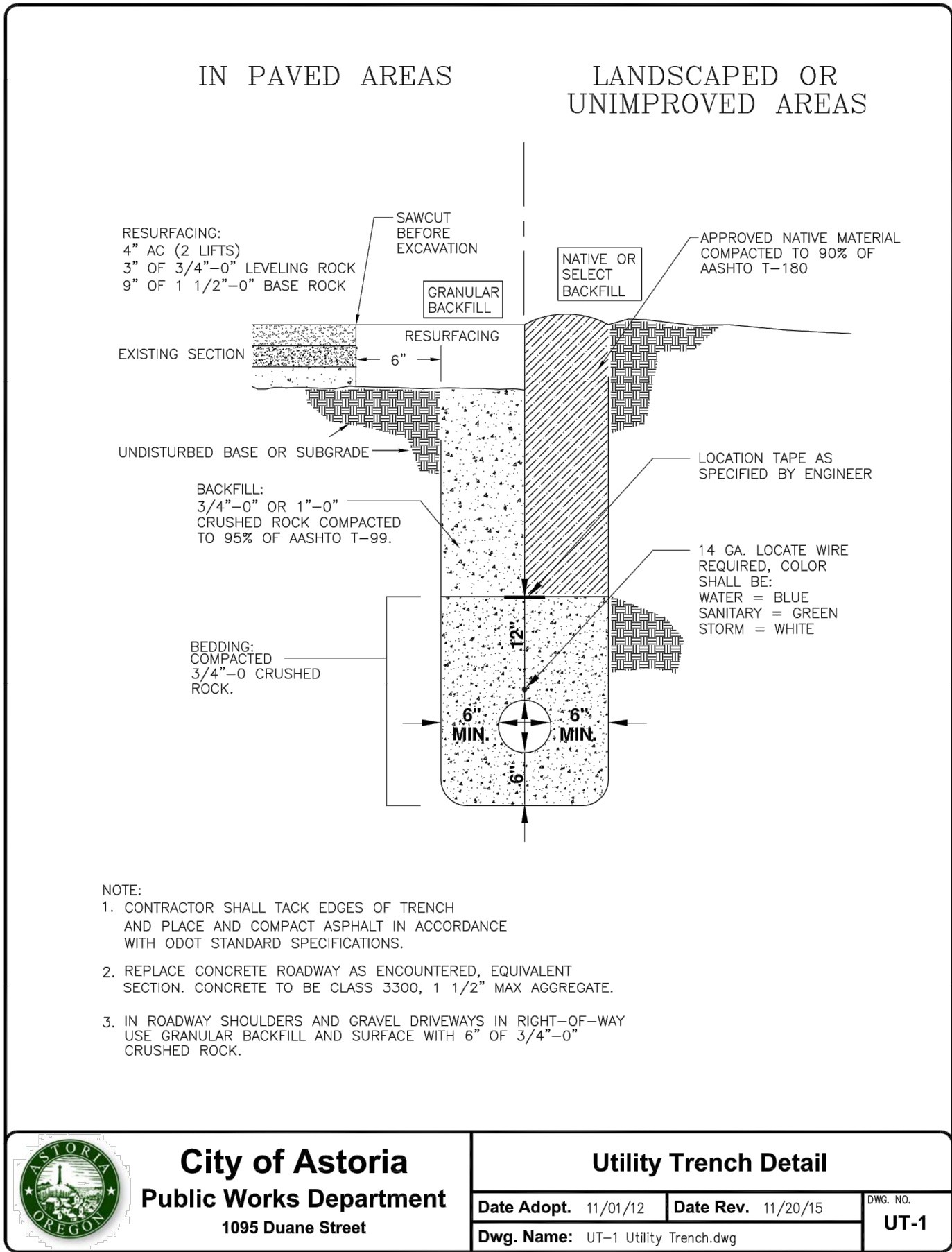
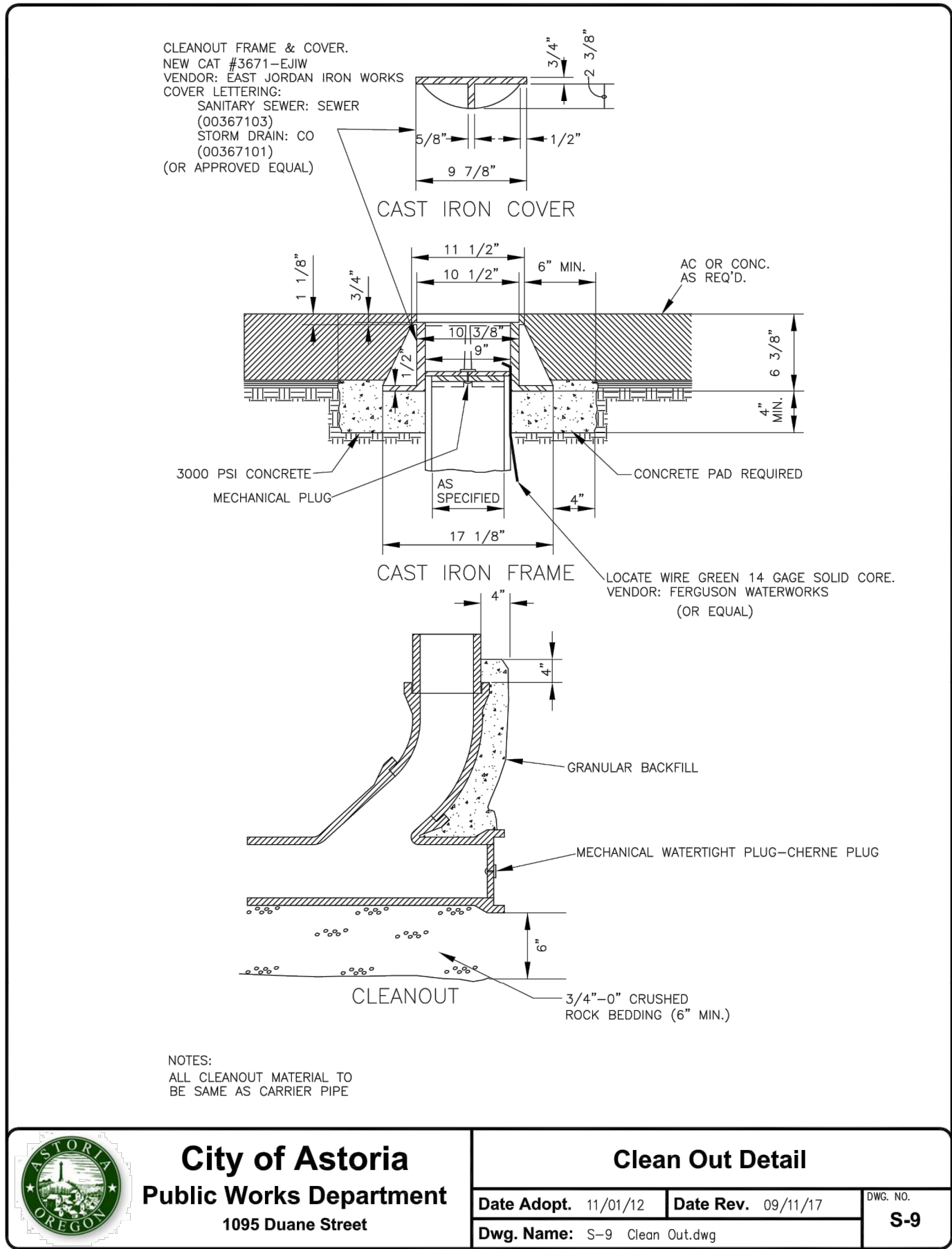


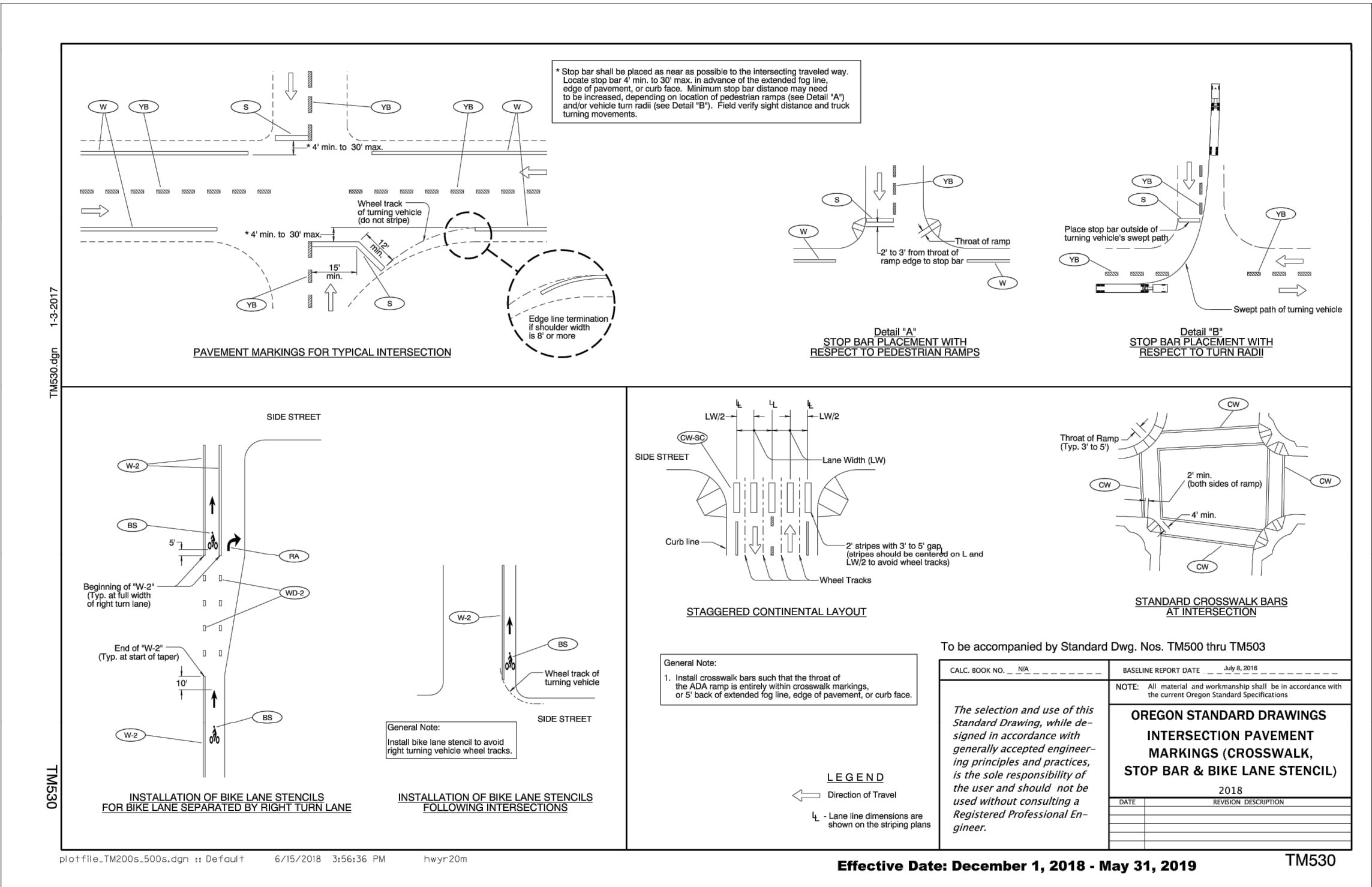
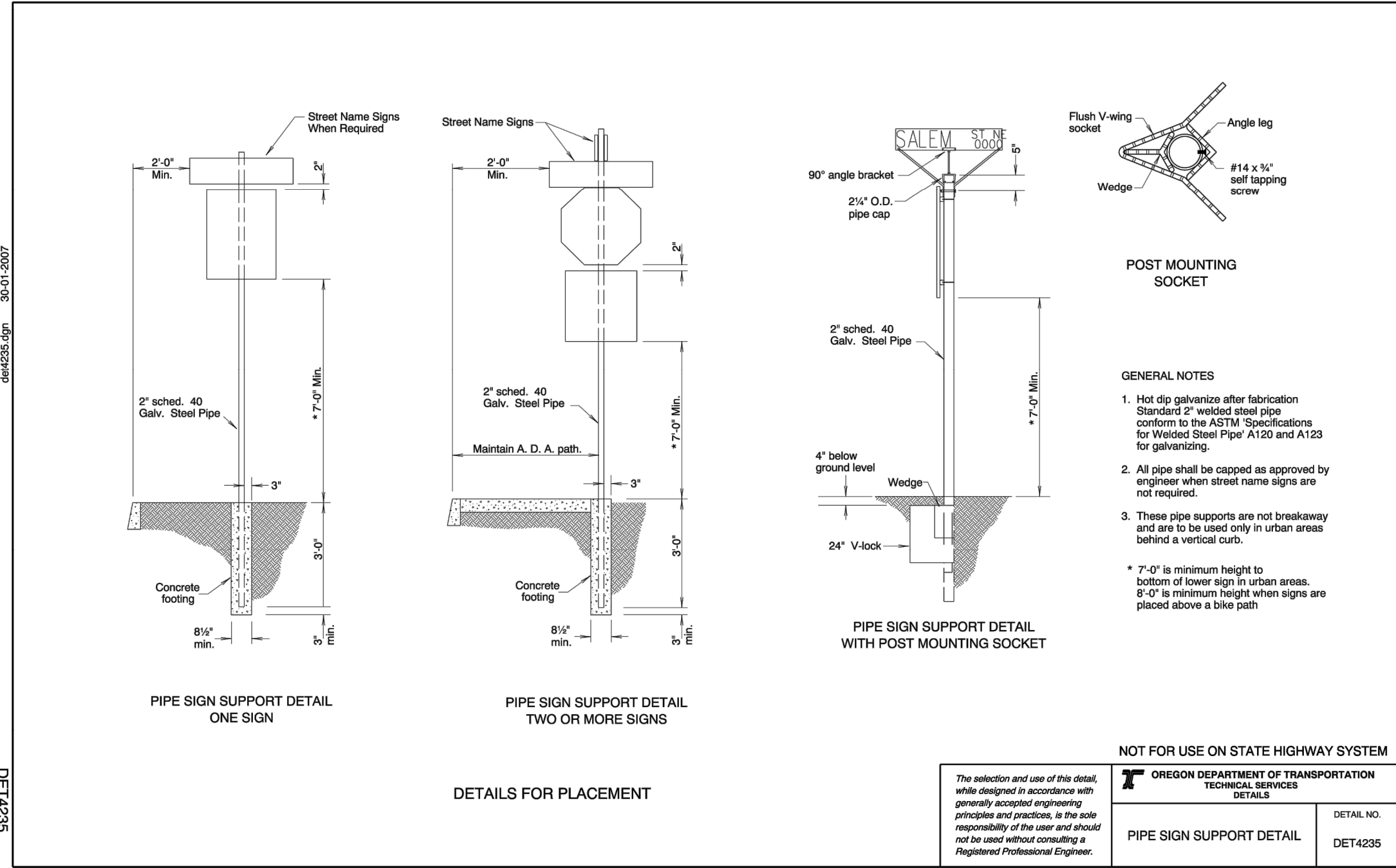
PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

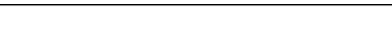
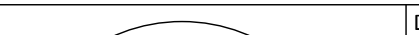
CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
DRAINAGE DETAILS 2

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	C5.11
SHEET NO:	14 OF 49



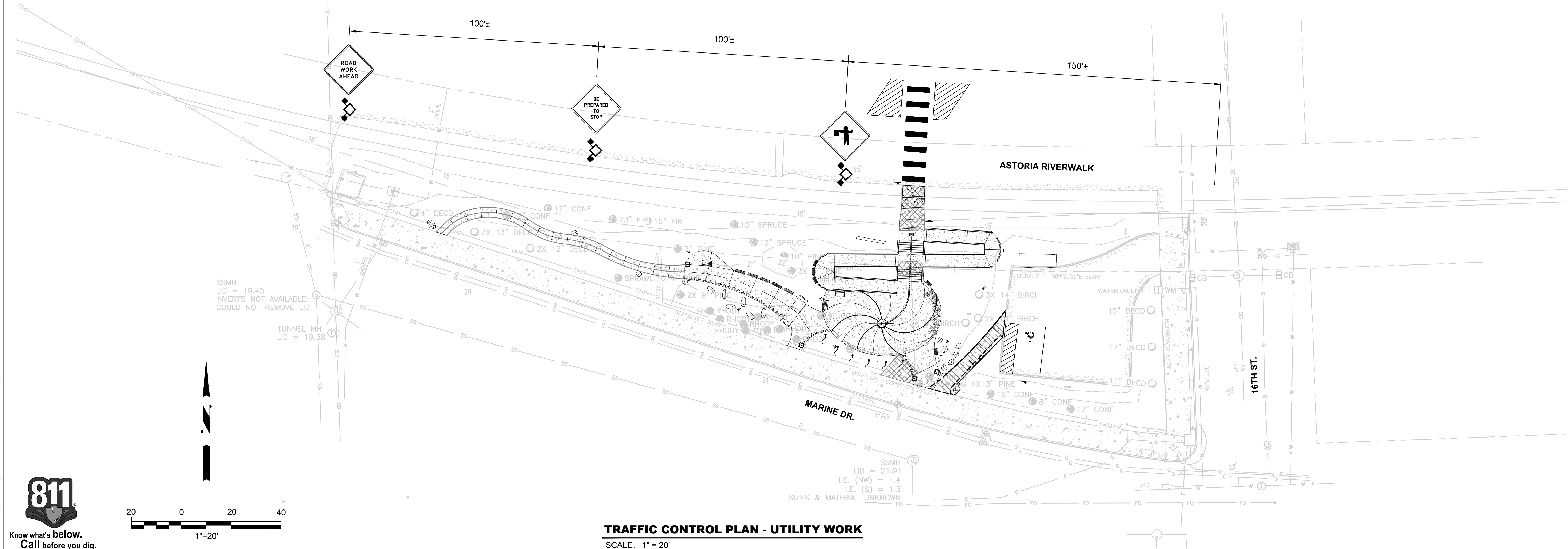
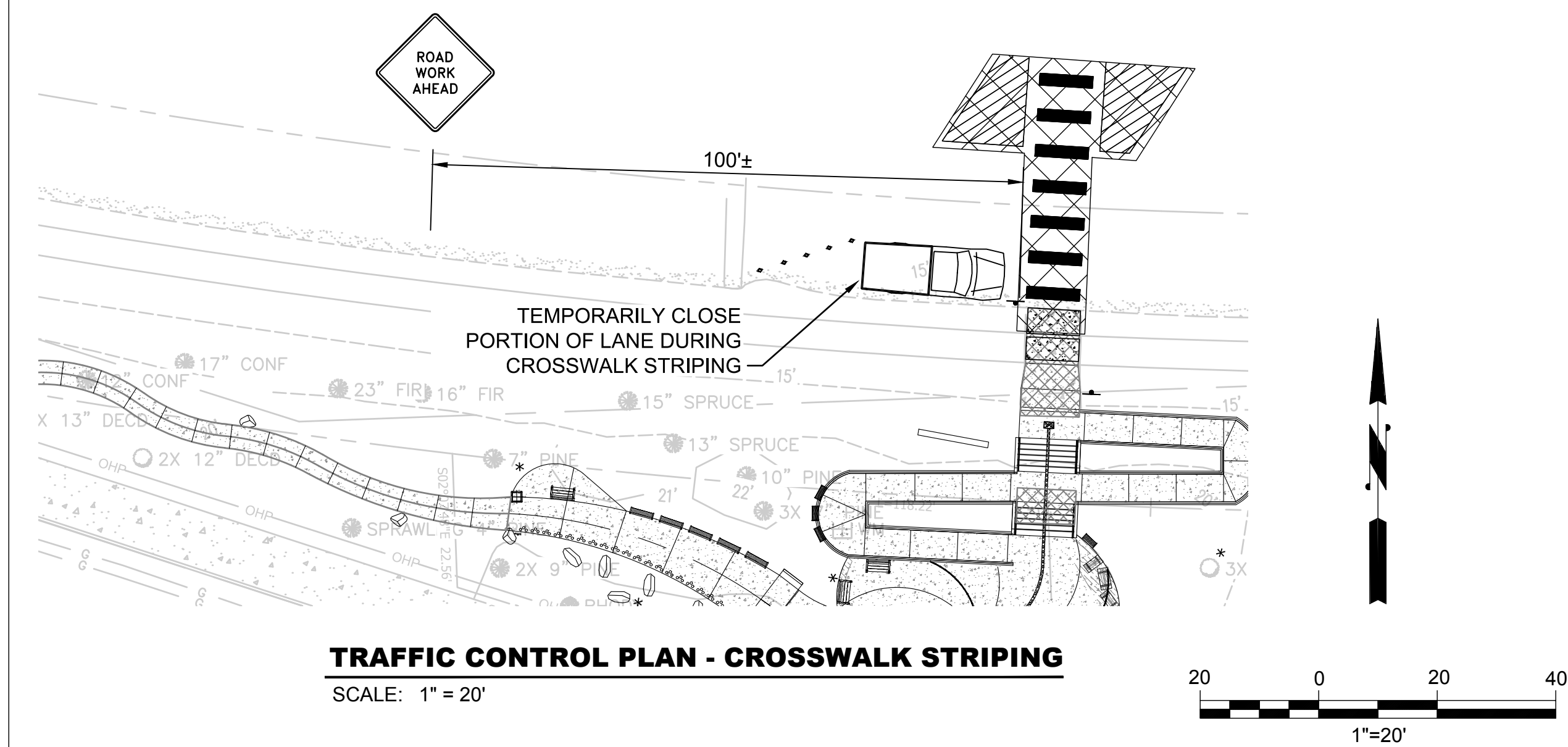


 		DESIGNED: O. SKLENAR	DRAWN: L. TURNIDGE		PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103	ASTORIA SCANDINAVIAN HERITAGE PARK PAVING AND SITE DETAILS 1	SCALE: AS SHOWN
		DESIGNED: A. LEE	DRAWN:		CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103		DRAWING NO: C5.20
		DESIGNED: B. BUSIEK	DRAWN:				SHEET NO: 15 OF 49
		CHECKED: AS NOTED	APPROVED: B. BUSIEK				

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NOTES:

- SEE DWG C0.00 FOR ABBREVIATIONS AND LEGEND.
- TRAFFIC CONTROLS SHOWN ARE THE MINIMUM REQUIRED AND SHALL BE AUGMENTED BY THE CONTRACTOR IN ACCORDANCE WITH CONTRACTOR'S TRAFFIC CONTROL PLAN (TCP).
- CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN PER MUTCD, ODOT TRAFFIC CONTROL PLANS DESIGN MANUAL, AND SPECIAL PROVISIONS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SIGNAGE PER APPROVED TCP AND ODOT TRAFFIC CONTROL PLANS DESIGN MANUAL, FOR ALL WORK THAT WILL IMPACT OR DELAY TRAFFIC ON AFFECTED PORTIONS OF 16TH ST., MARINE DR., AND ASTORIA RIVERWALK. THIS PLAN SHOWS MINIMUM SIGNAGE TO BE INSTALLED FOR THE DURATION OF THE WORK. ADDITIONAL SIGNAGE AND TRAFFIC CONTROL MEASURES, INCLUDING, BUT NOT LIMITED TO, FLAGGERS, ROAD CLOSURE SIGNAGE, AND FLAGGING SIGNAGE REQUIRED TO PERFORM THE WORK, SHALL BE IDENTIFIED IN THE CONTRACTOR'S TCP.
- TEMPORARY TRAFFIC STOPPAGE ON AFFECTED PORTIONS OF 16TH ST. WILL BE ALLOWED FROM 9:00 AM TO 3:00 PM MONDAY TO FRIDAY FOR MATERIALS DELIVERY IN AND OUT OF THE WORK AREA. TEMPORARY TRAFFIC STOPPAGE SHALL NOT EXCEED 5 MINUTES.
- MAINTAIN LOCAL ACCESS TO PRIVATE PROPERTY VIA EXISTING ACCESS ROADS FOR THE DURATION OF THE WORK.
- ALL ACCESS ROADS AND ROUTES SHALL BE RESTORED TO PRE-PROJECT CONDITION OR BETTER AT PROJECT COMPLETION.
- COORDINATE WITH TROLLEY OPERATOR AT LEAST 48 HOURS PRIOR TO COMMENCING TRACK CROSSING WORK.

DRAWING ISSUE		DATE
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No.	REVISION	DATE
NOT FOR CONSTRUCTION		

The West Studio

DESIGNED: O. SKLENAR	DRAWN: L. TURNIDGE
DESIGNED: A. LEE	DRAWN:
DESIGNED: B. BUSIEK	DRAWN:
CHECKED: AS NOTED	APPROVED: B. BUSIEK

PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

TRAFFIC CONTROL PLAN

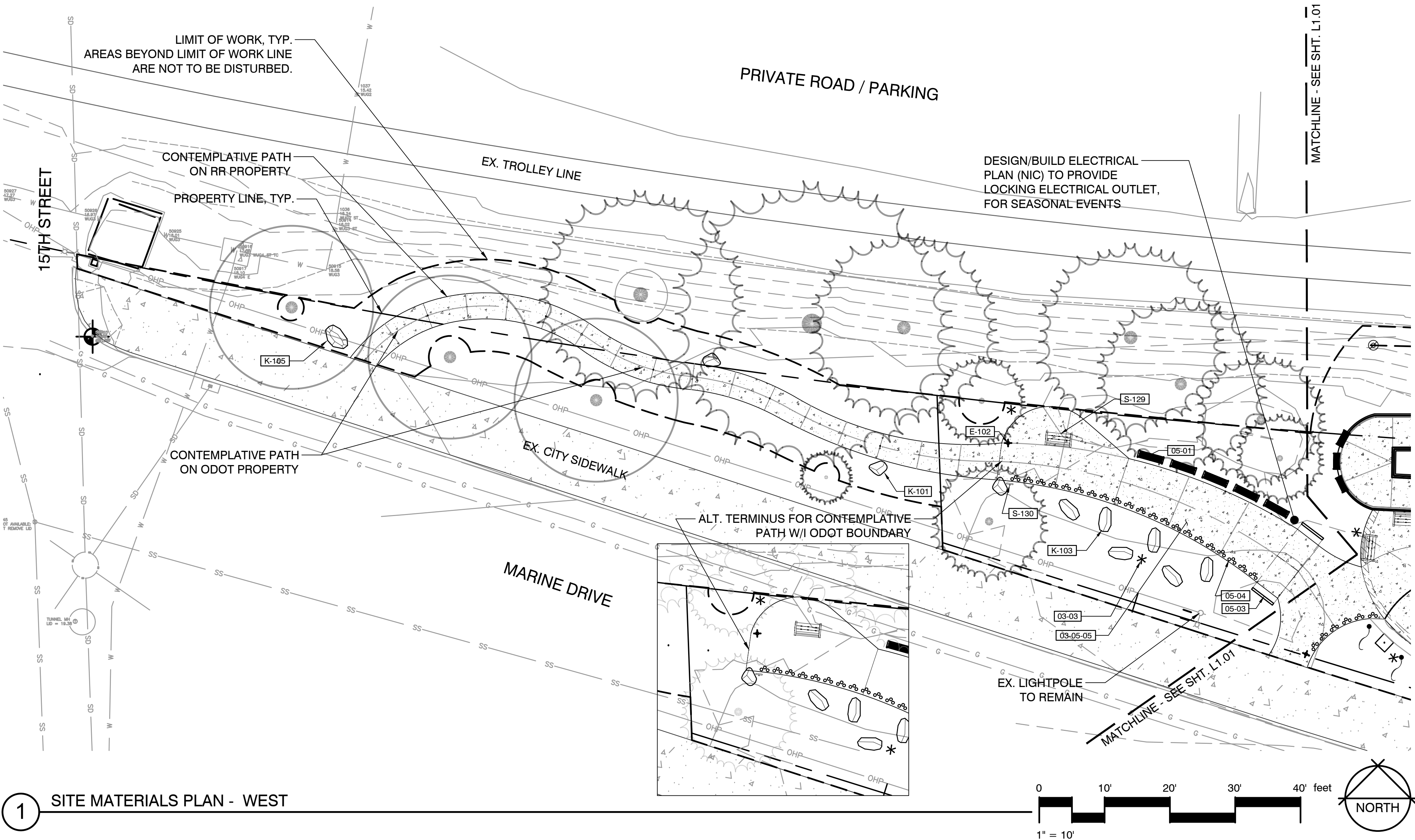
SCALE:
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PROJECT NO:
18002

DRAWING NO:
C6.00

SHEET NO: 17 OF 49

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1 SITE MATERIALS PLAN - WEST

GENERAL SITE NOTES

1. SEE L1.20 & L1.21 FOR GRADING AND LAYOUT.
2. SEE L2.00 & L2.01 FOR IRRIGATION PLAN.
3. SEE L3.01 & L3.02 FOR PLANTING PLAN.
4. SEE L6.01 FOR MATERIALS SCHEDULE AND NOTES.
5. REFER TO CIVIL SHEETS FOR ADDITIONAL DRAINAGE AND GRADING INFORMATION.
6. REFER TO STRUCTURAL SHEETS FOR ADDITIONAL FOUNDATION INFORMATION.

MATERIALS KEY:

SYMBOL	DESCRIPTION
03-02	PRE-CAST CONC STEAMER TRUNK SEATING
03-03	PRE-CAST CONC HIDDEN TROLL & FOOTING
03-04	CIP CONC STAIR
03-05-05	CIP CONC. 4" THICKNESS
03-05-06	CIP CONC THICKENED EDGE AT PLAZA

SYMBOL	DESCRIPTION
05-01	INTERPRETIVE SIGNAGE - GROUND MOUNTED
05-03	SS ARCH W/ LED RIBBON LIGHTING
05-04	SS DONOR MEDALLIONS (SET OF 3)
05-06	SS INLAID BANDING
05-07	SS MIDSUMMER POLE

SYMBOL	DESCRIPTION
32-40	FLAG POLE - 20FT

SYMBOL	DESCRIPTION
33-40	TRENCH DRAIN_ 5" RADIAL RUNNEL SECTION
33-41	TRENCH DRAIN_ 6" W/ HALF CIRCLE RUNNEL SECTION
33-43	TRENCH DRAIN_ 5" STRAIGHT SECTION
33-45	DECORATIVE CATCH BASIN COVER

SYMBOL	DESCRIPTION
E-102	BOLLARD LIGHT W/ DECORATIVE SLEEVE
E-103	RECESSED LED RIBBON LIGHT @ RAMP WALL

SYMBOL	DESCRIPTION
K-101	LANDSCAPE BOULDER , 2-3 MAN
K-102	ENGRAVED GRANITE PILLAR
K-103	BAS RELIEF GRANITE SCULPTURE
K-104	PARK SIGN - GRANITE SLAB
K-105	PARK SIGN - RUNE STONE

SYMBOL	DESCRIPTION
R-101	SS PIPE HANDRAIL
R-102	SS DECORATIVE RAIL
R-103	SKATE DETERRENT
R-104	SS PIPE HANDRAIL W/ INTEGRAGED LED LIGHTING

SYMBOL	DESCRIPTION
S-129	PARK BENCH, 48" LENGTH
S-130	PARK RULES SIGNAGE W/ FOOTING
S-132	TRASH & RECYCLE

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
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DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK SITE MATERIALS PLAN

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L1.00
SHEET NO:	18 OF 49

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1 SITE MATERIALS PLAN - EAST

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
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DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103
CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
SITE MATERIALS PLAN

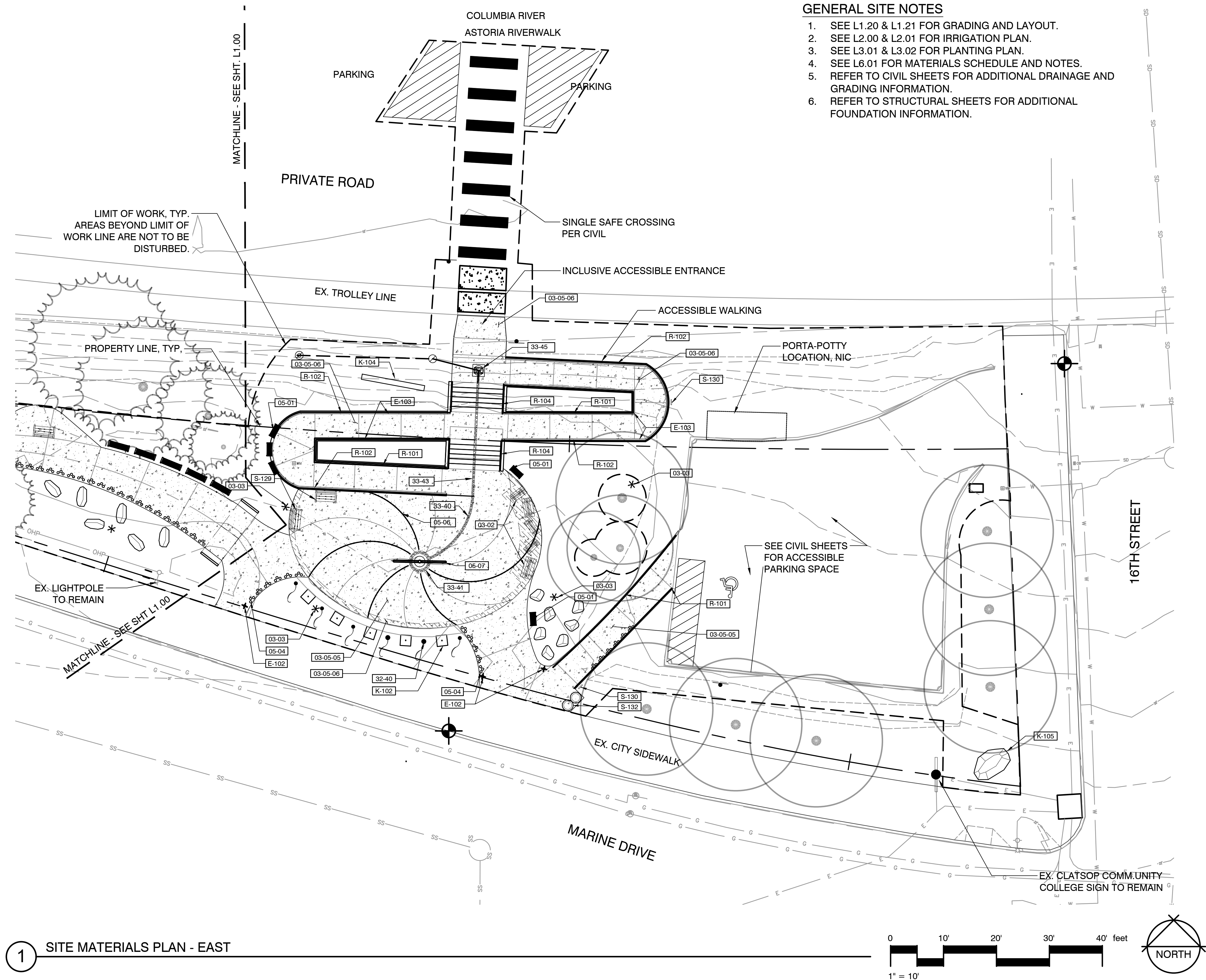
SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L1.01
SHEET NO:	19 OF 49

GENERAL SITE NOTES

1. SEE L1.20 & L1.21 FOR GRADING AND LAYOUT.
2. SEE L2.00 & L2.01 FOR IRRIGATION PLAN.
3. SEE L3.01 & L3.02 FOR PLANTING PLAN.
4. SEE L6.01 FOR MATERIALS SCHEDULE AND NOTES.
5. REFER TO CIVIL SHEETS FOR ADDITIONAL DRAINAGE AND GRADING INFORMATION.
6. REFER TO STRUCTURAL SHEETS FOR ADDITIONAL FOUNDATION INFORMATION.

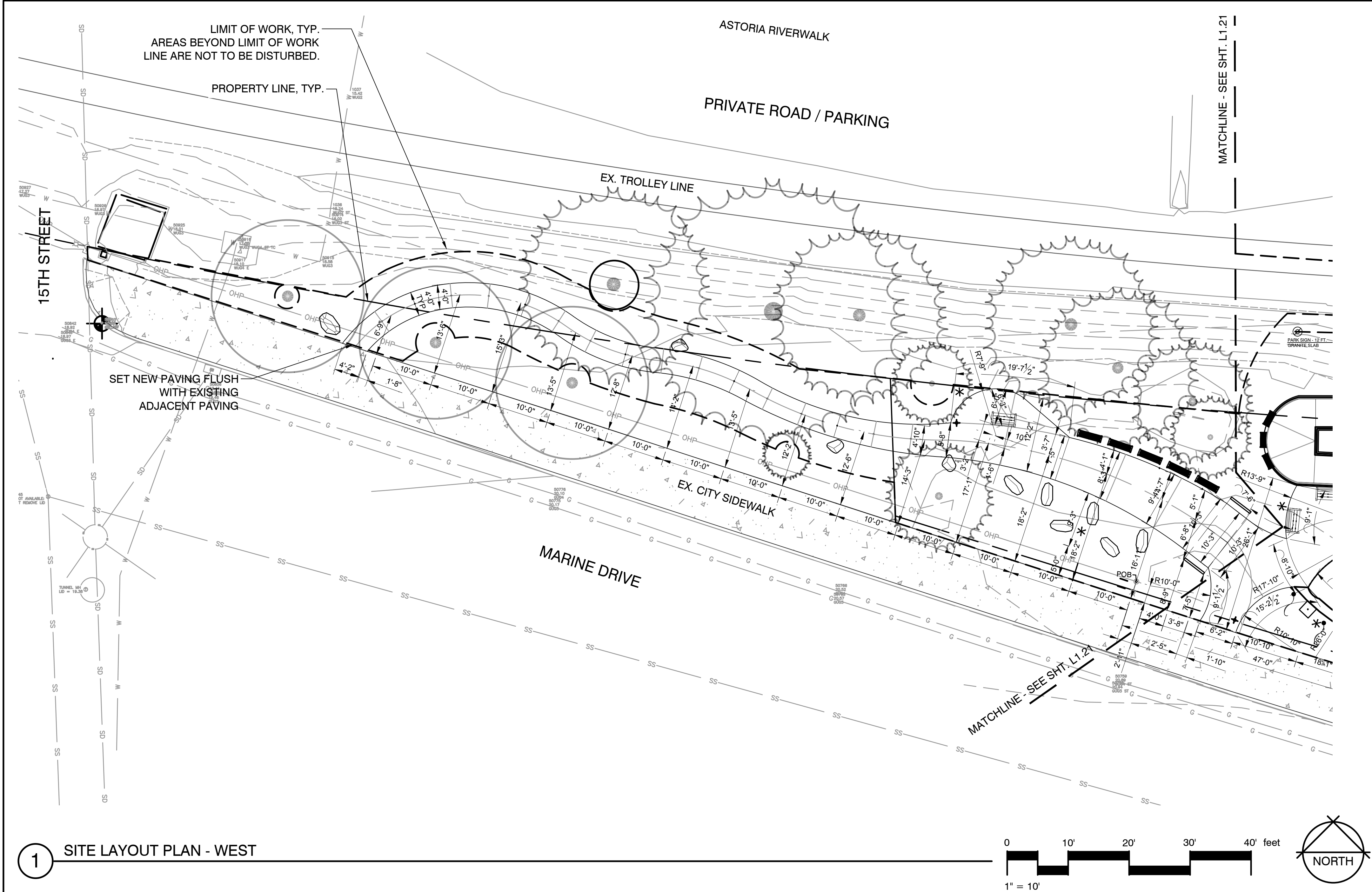
MATERIALS KEY:

SYMBOL	03 CONCRETE DESCRIPTION
03-02	PRE-CAST CONC STEAMER TRUNK SEATING
03-03	PRE-CAST CONC HIDDEN TROLL & FOOTING
03-04	CIP CONC STAIR
03-05-05	CIP CONC. 4" THICKNESS
03-05-06	CIP CONC THICKENED EDGE AT PLAZA
SYMBOL	05 METALS DESCRIPTION
05-01	INTERPRETIVE SIGNAGE - GROUND MOUNTED
05-03	SS ARCH W/ LED RIBBON LIGHTING
05-04	SS DONOR MEDALLIONS (SET OF 3)
05-06	SS INLAID BANDING
05-07	SS MIDSUMMER POLE
SYMBOL	FLAGPOLES DESCRIPTION
32-40	FLAG POLE - 20FT
SYMBOL	STORM DRAINAGE UTILITIES DESCRIPTION
33-40	TRENCH DRAIN_5" RADIAL RUNNEL SECTION
33-41	TRENCH DRAIN_6" W/ HALF CIRCLE RUNNEL SECTION
33-43	TRENCH DRAIN_5" STRAIGHT SECTION
33-45	DECORATIVE CATCH BASIN COVER
SYMBOL	ELECTRICAL DESCRIPTION
E-102	BOLLARD LIGHT W/ DECORATIVE SLEEVE
E-103	RECESSED LED RIBBON LIGHT @ RAMP WALL
SYMBOL	ROCK DESCRIPTION
K-101	LANDSCAPE BOULDER , 2-3 MAN
K-102	ENGRAVED GRANITE PILLAR
K-103	BAS RELIEF GRANITE SCULPTURE
K-104	PARK SIGN - GRANITE SLAB
K-105	PARK SIGN - RUNE STONE
SYMBOL	RAIL DESCRIPTION
R-101	SS PIPE HANDRAIL
R-102	SS DECORATIVE RAIL
R-103	SKATE DETERRENT
R-104	SS PIPE HANDRAIL W/ INTEGRAGED LED LIGHTING
SYMBOL	SITE FURNISHINGS DESCRIPTION
S-129	PARK BENCH, 48" LENGTH
S-130	PARK RULES SIGNAGE W/ FOOTING
S-132	TRASH & RECYCLE



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GENERAL CONDITIONS NOTES

- WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
 - THESE GENERAL NOTES, AND CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
 - ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS. ALL CODES LISTED IN SPECIFICATIONS AND DRAWINGS SHALL BE INCLUSIVE OF ALL CODES, REGULATIONS AND REQUIREMENTS ADOPTED BY THE CITY OF ASTORIA AND THE STATE OF OREGON, INCLUDING ALL AMENDMENTS.
- VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
- CONTACT LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION, PRIOR TO COMMENCING WORK.
- PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND, IF NECESSARY, THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER.
- SEE SPECIFICATIONS AND CITY OF ASTORIA REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SHOULD A DISCREPANCY BETWEEN CITY OF ASTORIA STANDARDS AND THE SPECIFICATIONS/DRAWINGS ARISE, CONTRACTOR IS TO DEFER TO CITY OF ASTORIA CODE AND STANDARDS.

SITE LAYOUT NOTES

- ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE, LARGER SCALE OVER SMALLER SCALE, ADDENDA AND CLARIFICATIONS OVER PREVIOUS DOCUMENTS.
- LAYOUT PLAN DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS OR OTHER DRAWINGS SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT IMMEDIATELY FOR PROPER CLARIFICATION OR ADJUSTMENT.
- CONTRACTOR TO STAKE CONCRETE PAVING AND CURBS IN FIELD AND REVIEW WITH LANDSCAPE ARCHITECT PRIOR TO SETTING FORM WORK.
- WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTER LINES.
- MEASUREMENTS ARE TO WALL OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES IS AS INDICATED.
- LAYOUT DIMENSIONED TO OUTSIDE OF CURVED CENTERLINE. CURVES TO BE SMOOTH; CONFIRM LAYOUT IN FIELD WITH OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
- PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.
- SET NEW PAVING FLUSH WITH EXISTING ADJACENT PAVING.
- EXPANSION JOINTS IN CONCRETE WALKWAYS SHALL BE LOCATED TWENTY FEET 20'-0" O.C. MAXIMUM OR AS INDICATED.
- EXPANSION JOINT AND CONTROL JOINT LAYOUT IS DIAGRAMMATIC AND FOR PRICING PURPOSES ONLY. CONTRACTOR TO VERIFY JOINT LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- COORDINATE FINAL LOCATION OF SITE FURNISHINGS IN FIELD WITH LANDSCAPE ARCHITECT.
- WALKWAYS TO ADHERE TO ACCESSIBLE STANDARDS WITH MAX 5% LONGITUDINAL SLOPE AND 2% CROSS SLOPE. MINIMUM SLOPE OF .05% ON ALL SURFACES.
- AREAS WITHIN THE LIMIT OF WORK LINE THAT ARE DISTURBED OUTSIDE OF THE PROPOSED PLANTING AREAS ARE TO BE HYDROSEEDDED.
- ELECTRICIAN TO PROVIDE LIGHTING PLAN. SLEEVE FOR ELECTRICAL CONDUIT.
- SEE CIVIL DRAWINGS FOR PARKING LOT LAYOUT, GRADING, AND DETAIL INFORMATION.

GENERAL NOTES:

- SEE G1.01 FOR GENERAL CONDITIONS AND LAYOUT NOTES.
- SEE C4.00 & C4.01 FOR GRADING AND DRAINAGE.
- SEE L1.00 & L1.01 FOR MATERIALS.
- SEE L2.00 & L2.01 FOR IRRIGATION PLAN.
- SEE L3.00 & L3.01 FOR PLANTING PLAN.
- SEE L4.00 FOR RAMP & PLAZA DIMENSIONS LAYOUT.
- SEE L6.00 FOR MATERIALS SCHEDULES.

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
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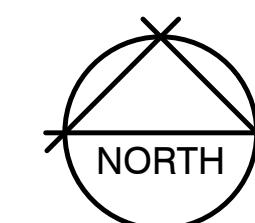
DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK SITE LAYOUT PLAN	
SCALE: AS SHOWN	PROJECT NO: 18002
DRAWING NO: L1.20	SHEET NO: 20 OF 49

1. SEE G1.01 FOR GENERAL CONDITIONS AND LAYOUT NOTES.
2. SEE C4.00 & C4.01 FOR GRADING AND DRAINAGE.
3. SEE L1.00 & L1.01 FOR MATERIALS.
4. SEE L2.00 & L2.01 FOR IRRIGATION PLAN.
5. SEE L3.00 & L3.01 FOR PLANTING PLAN.
6. SEE L4.00 FOR RAMP & PLAZA DIMENSIONS LAYOUT.
7. SEE L6.00 FOR MATERIALS SCHEDULES.



The West Studio



PROJECT LOCATION:

16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:

ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION

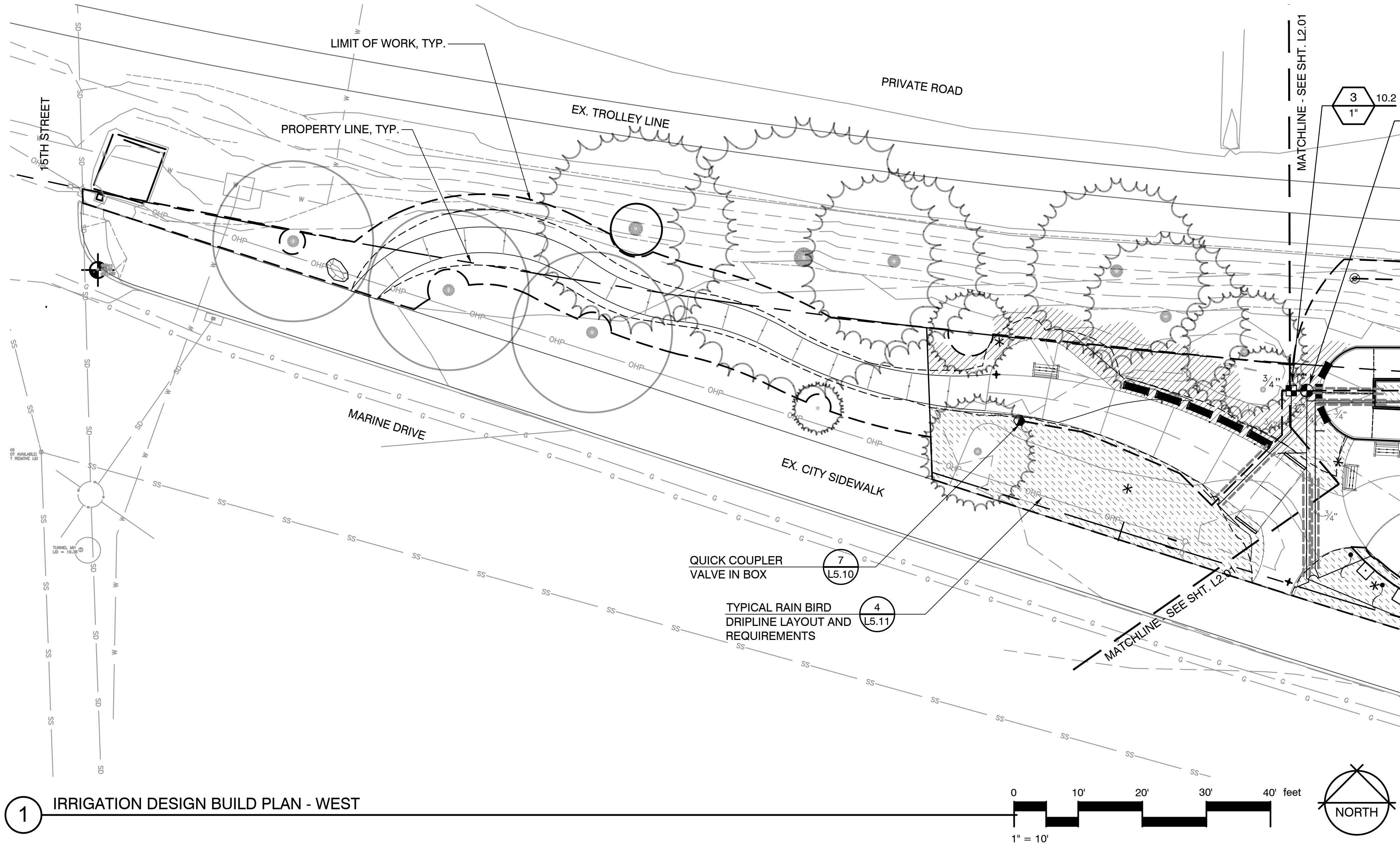
PO BOX 34
ASTORIA, OREGON 97103

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L1.21
SHEET NO:	21 OF 49

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ORIGINATED BY: / DATE: /
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BACK-CHECKED BY: / DATE: /

10/4/2018 7:49 PM



IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION
	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M) DRIPLINE WITH 0.90 GPH EMITTERS AT 18" O.C., ROW SPACING AT 18" O.C.
	SHRUB ROTARY (TORO, RAIN BIRD) 12' TO 24' RADIUS (3.7M-7.3M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD XZC-100-PRF MEDIUM FLOW DRIP CONTROL KIT, 1" DV VALVE, 1" PRESSURE REGULATING FILTER, 40PSI PRESSURE REGULATOR. 3GPM - 15GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.
	RAIN BIRD 33-DNP 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY. (PROVIDE 2 33-DK KEYS)
	RAIN BIRD ESP-8LXME-LXMMSSPED 8 STATION CAPABLE COMMERCIAL CONTROLLER. MOUNTED ON A SS METAL PEDESTAL. WITHOUT FLOW SENSING.
	POINT OF CONNECTION 3/4"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size

GENERAL IRRIGATION NOTES:

- SEE SHEET L6.10 FOR IRRIGATION SCHEDULE AND NOTES.
- SEE SHEETS L1.00 AND L1.01 FOR LANDSCAPE MATERIALS
- SEE SHEETS L1.20 AND L1.21 FOR LAYOUT PLAN.
- SEE SHEETS L3.00 FOR IRRIGATION PLAN.
- TREE SYMBOLS DENOTE SURVEYED SIGNIFICANT TREES. TREES ARE NOT TO BE DISTURBED UNLESS INDICATED ON CIVIL DRAWINGS OR PER ARBORIST'S DIRECTION IN THE FIELD.
- IRRIGATION PIPING AND RELATED EQUIPMENT ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY DIMENSIONS AND NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES BETWEEN THE DRAWINGS OR SPECIFICATIONS AND THE ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE IRRIGATION SYSTEM IN SUCH A MANNER THAT IT WILL BE IN CONFORMANCE TO SITE CONDITIONS, COMPLETE AND IN GOOD WORKING ORDER.

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

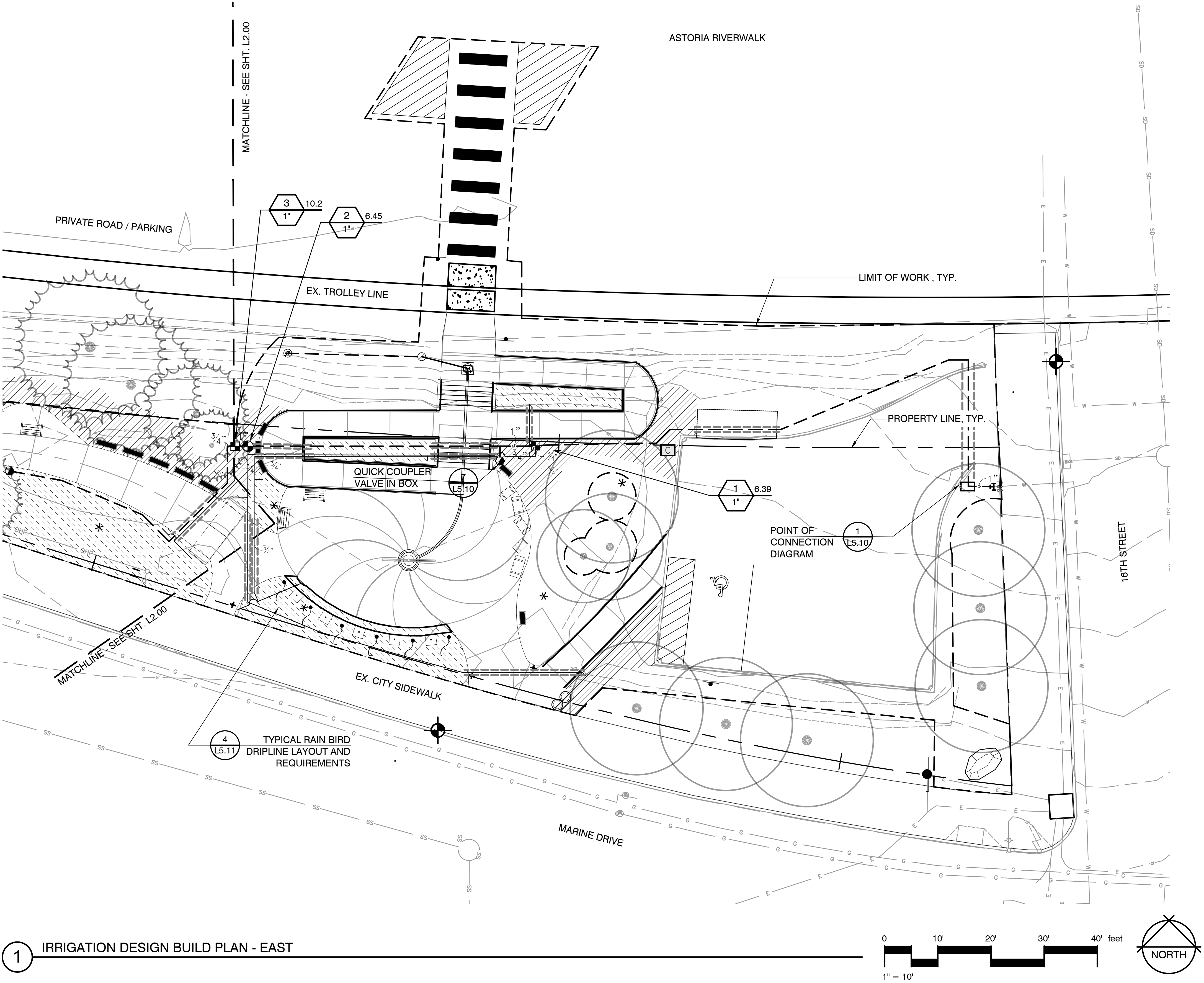
CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK	
IRRIGATION PLAN	

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L2.00
SHEET NO:	22 OF 49

ORIGINATED BY: / DATE: /
CHECKED BY: / DATE: /
BACK-CHECKED BY: / DATE: /

10/4/2018 7:49 PM



IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION
	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M) DRIPLINE WITH 0.90 GPH EMITTERS AT 18" O.C., ROW SPACING AT 18" O.C.
	SHRUB ROTARY (TORO, RAIN BIRD) 12' TO 24' RADIUS (3,7M-7,3M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD XCB-100-PRF MEDIUM FLOW DRIP CONTROL KIT, 1" DV VALVE, 1" PRESSURE REGULATING FILTER, 40PSI PRESSURE REGULATOR. 3GPM - 15GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.
	RAIN BIRD 33-DNP 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY. (PROVIDE 2 33-DK KEYS)
	RAIN BIRD ESP-8LXME-LXMMSSPED 8 STATION CAPABLE COMMERCIAL CONTROLLER. MOUNTED ON A SS METAL PEDESTAL. WITHOUT FLOW SENSING.
	POINT OF CONNECTION 3/4"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size

GENERAL IRRIGATION NOTES:

- SEE SHEET L6.10 FOR IRRIGATION SCHEDULE AND NOTES.
- SEE SHEETS L1.00 AND L1.01 FOR LANDSCAPE MATERIALS
- SEE SHEETS L1.20 AND L1.21 FOR LAYOUT PLAN.
- SEE SHEETS L3.00 FOR IRRIGATION PLAN.
- TREE SYMBOLS DENOTE SURVEYED SIGNIFICANT TREES. TREES ARE NOT TO BE DISTURBED UNLESS INDICATED ON CIVIL DRAWINGS OR PER ARBORIST'S DIRECTION IN THE FIELD.
- IRRIGATION PIPING AND RELATED EQUIPMENT ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY DIMENSIONS AND NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES BETWEEN THE DRAWINGS OR SPECIFICATIONS AND THE ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE IRRIGATION SYSTEM IN SUCH A MANNER THAT IT WILL BE IN CONFORMANCE TO SITE CONDITIONS, COMPLETE AND IN GOOD WORKING ORDER.

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST

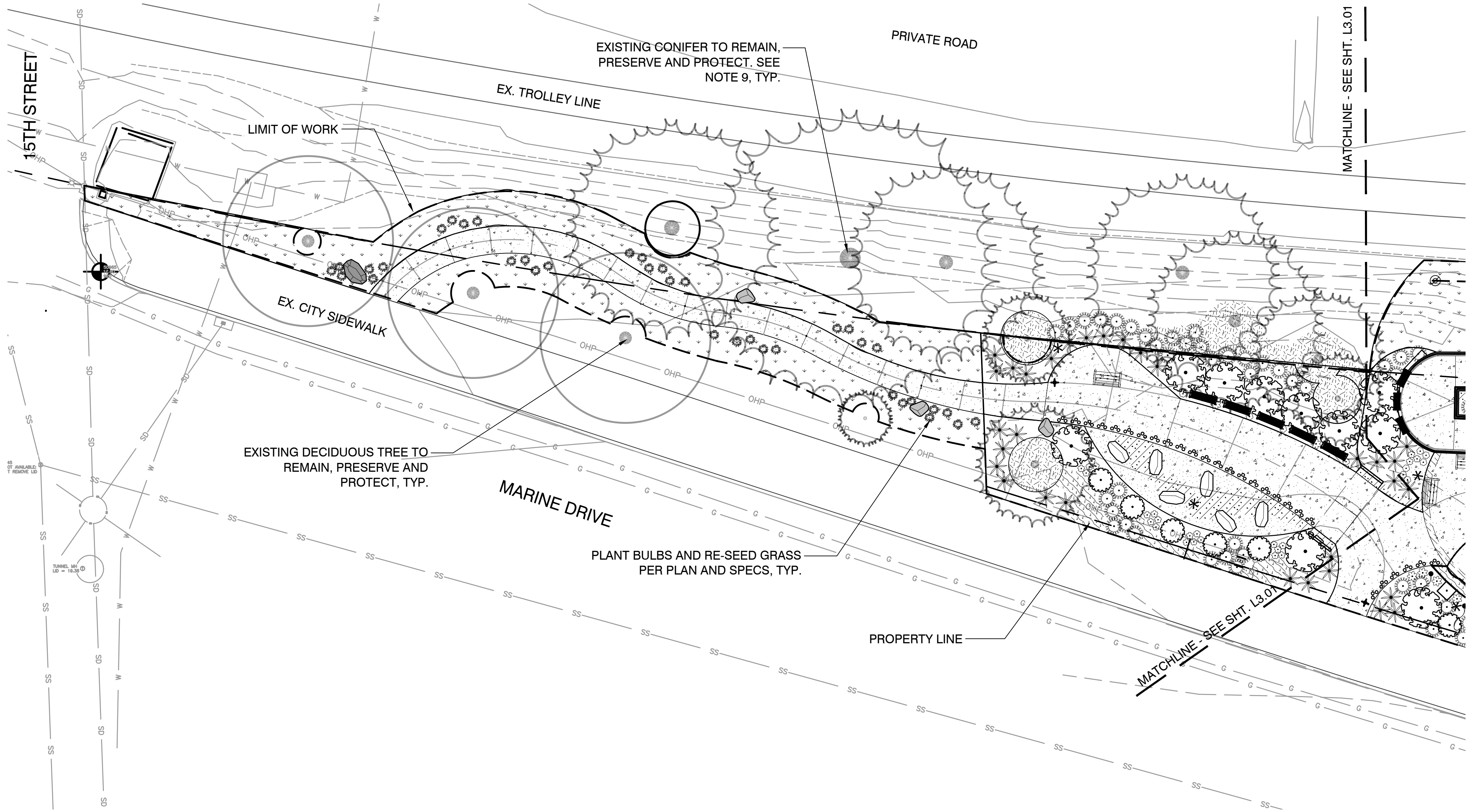


PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK IRRIGATION PLAN	
SCALE: AS SHOWN	PROJECT NO: 18002
DRAWING NO: L2.01	SHEET NO: 23 OF 49

ORIGINATED BY: / DATE: /
CHECKED BY: / DATE: /
BACK-CHECKED BY: / DATE: /

10/4/2018 7:49 PM



1 PLANTING PLAN - WEST

PLANT SCHEDULE

SHRUBS	BOTANICAL / COMMON NAME
	ARCTOSTAPHYLOS UVA-URSI `MASSACHUSETTS` MASSACHUSETTS MANZANITA
	CEANOTHUS GLORIOSUS `ANCHOR BAY` ANCHOR BAY LILAC
	POLYSTICHUM MUNITUM WESTERN SWORD FERN
	SENECIO GREYI DAISY BUSH
ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
	CAMASSIA LEICHTLINII INDIAN HYACINTH
	GALANTHUS NIVALIS SNOWDROP
	GEUM X `TOTALLY TANGERINE` TANGERINE GEUM
	IRIS TENAX OREGON IRIS
GROUND COVERS	BOTANICAL / COMMON NAME
	LAWN ECO MIX PER ODOT STND HYDRO SEED MIX
	MAHONIA REPENS CREEPING MAHONIA
	SAGINA SUBULATA `AUREA` SCOTCH MOSS
	SEDUM OREGANUM OREGON SEDUM

GENERAL LANDSCAPE NOTES:

1. PLANT LAYOUT TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. SEE SHEET L6.20 FOR PLANTING SCHEDULE.
3. SEE SHEETS L1.00 AND L1.01 FOR LANDSCAPE MATERIALS
4. SEE SHEETS L1.20 AND L1.21 FOR LAYOUT PLAN.
5. SEE SHEETS L2.00 AND L2.01 FOR IRRIGATION PLAN.
6. REFER TO CIVIL ENGINEERING PLANS FOR ALL UTILITY, GRADING, AND DRAINAGE INFORMATION.
7. RESEED AREA OF DISTURBANCE DUE TO CONSTRUCTION ACTIVITIES; VERIFY EXTENT OF RE-SEEDING WITH OWNERS REPRESENTATIVE.
8. SEE ODOT SPECIAL PROVISIONS FOR SPECIFICATIONS.
9. EXISTING CONIFERS TO BE PRUNED BY CERTIFIED ARBORIST TO REMOVE DEAD OR DISEASED MATERIAL AND TO PROVIDE CLEARANCE FOR PEDESTRIAN CIRCULATION ALONG THE WALKWAY.

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



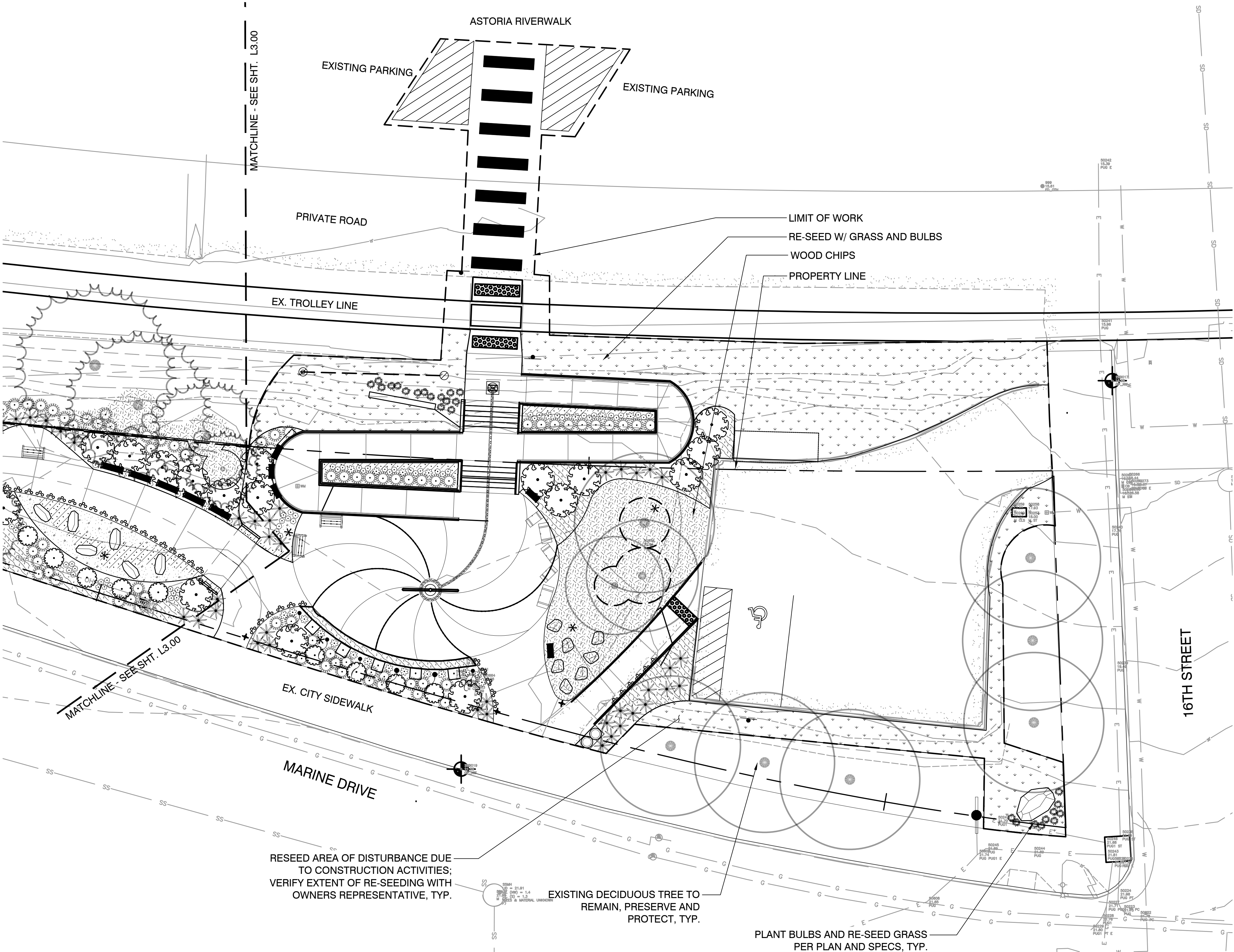
PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
PLANTING PLAN

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L3.00
SHEET NO:	24 OF 49

ORIGINATED BY: / DATE: /
CORRECTED BY: / DATE: /
CHECKED BY: / DATE: /
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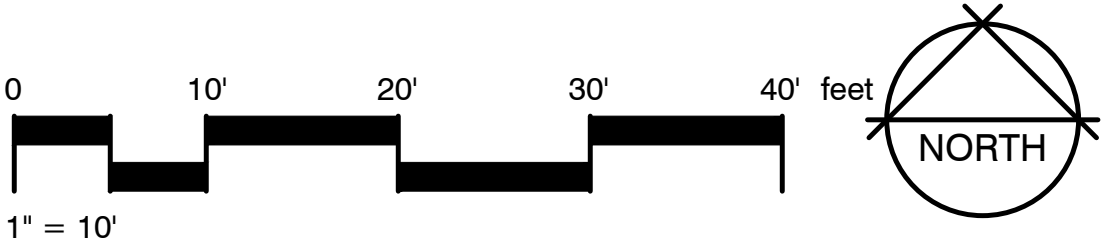
PLANT SCHEDULE

SHRUBS	BOTANICAL / COMMON NAME
	ARCTOSTAPHYLOS UVA-URSI 'MASSACHUSETTS' MASSACHUSETTS MANZANITA
	CEANOTHUS GLORIOSUS 'ANCHOR BAY' ANCHOR BAY LILAC
	POLYSTICHUM MUNITUM WESTERN SWORD FERN
	SENECIO GREYI DAISY BUSH
ANNUALS/PERENNIALS	BOTANICAL / COMMON NAME
	CAMASSIA LEICHTLINII INDIAN HYACINTH
	GALANTHUS NIVALIS SNOWDROP
	GEUM X 'TOTALLY TANGERINE' TANGERINE GEUM
	IRIS TENAX OREGON IRIS
GROUND COVERS	BOTANICAL / COMMON NAME
	LAWN ECO MIX PER ODOT STND HYDRO SEED MIX
	MAHONIA REPENS CREEPING MAHONIA
	SAGINA SUBULATA 'AUREA' SCOTCH MOSS
	SEDUM OREGANUM OREGON SEDUM

GENERAL LANDSCAPE NOTES:

1. PLANT LAYOUT TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. SEE SHEET L6.20 FOR PLANTING SCHEDULE.
3. SEE SHEETS L1.00 AND L1.01 FOR LANDSCAPE MATERIALS
4. SEE SHEETS L1.20 AND L1.21 FOR LAYOUT PLAN.
5. SEE SHEETS L2.00 AND L2.01 FOR IRRIGATION PLAN.
6. REFER TO CIVIL ENGINEERING PLANS FOR ALL UTILITY, GRADING, AND DRAINAGE INFORMATION.
7. RESEED AREA OF DISTURBANCE DUE TO CONSTRUCTION ACTIVITIES; VERIFY EXTENT OF RE-SEEDING WITH OWNERS REPRESENTATIVE.
8. SEE ODOT SPECIAL PROVISIONS FOR SPECIFICATIONS.
9. EXISTING CONIFERS TO BE PRUNED BY CERTIFIED ARBORIST TO REMOVE DEAD OR DISEASED MATERIAL AND TO PROVIDE CLEARANCE FOR PEDESTRIAN CIRCULATION ALONG THE WALKWAY.

1 PLANTING PLAN - EAST



DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST

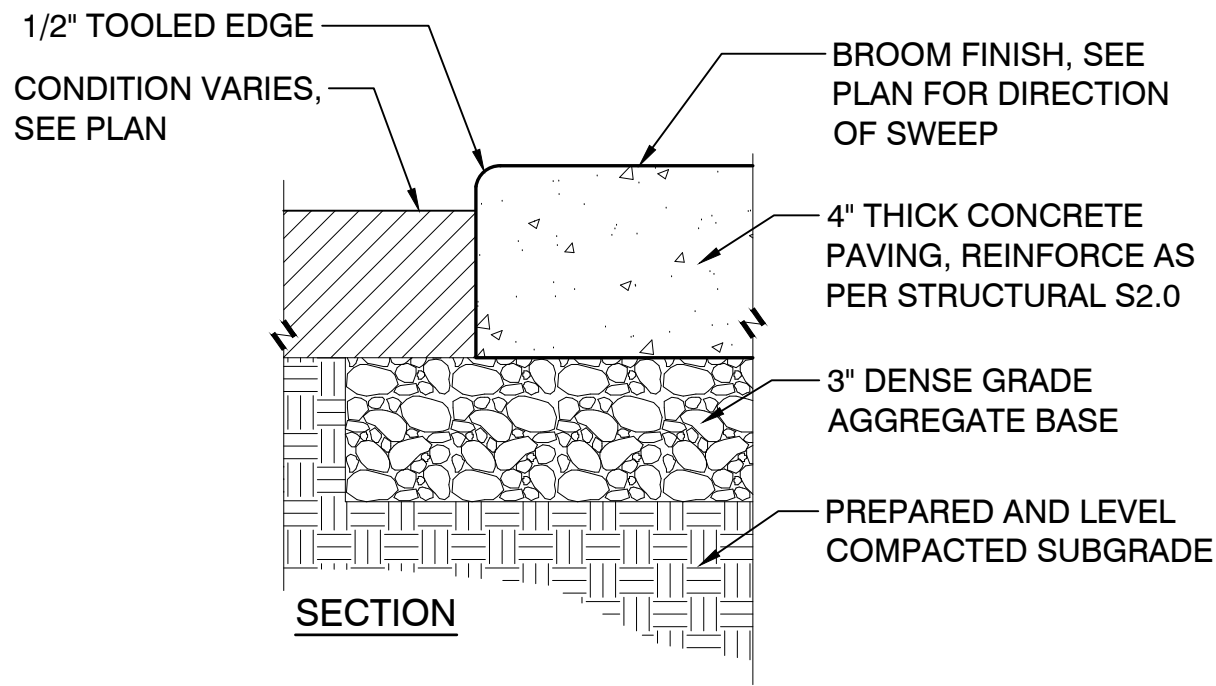


PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK PLANTING PLAN	
SCALE: AS SHOWN	PROJECT NO: 18002
DRAWING NO: L3.01	SHEET NO: 25 OF 49

ORIGINATED BY: / DATE: /
CHECKED BY: / DATE: /
BACK-CHECKED BY: / DATE: /
10/4/2018 7:49 PM

CORRECTED BY: / DATE: /
VERIFIED BY: / DATE: /



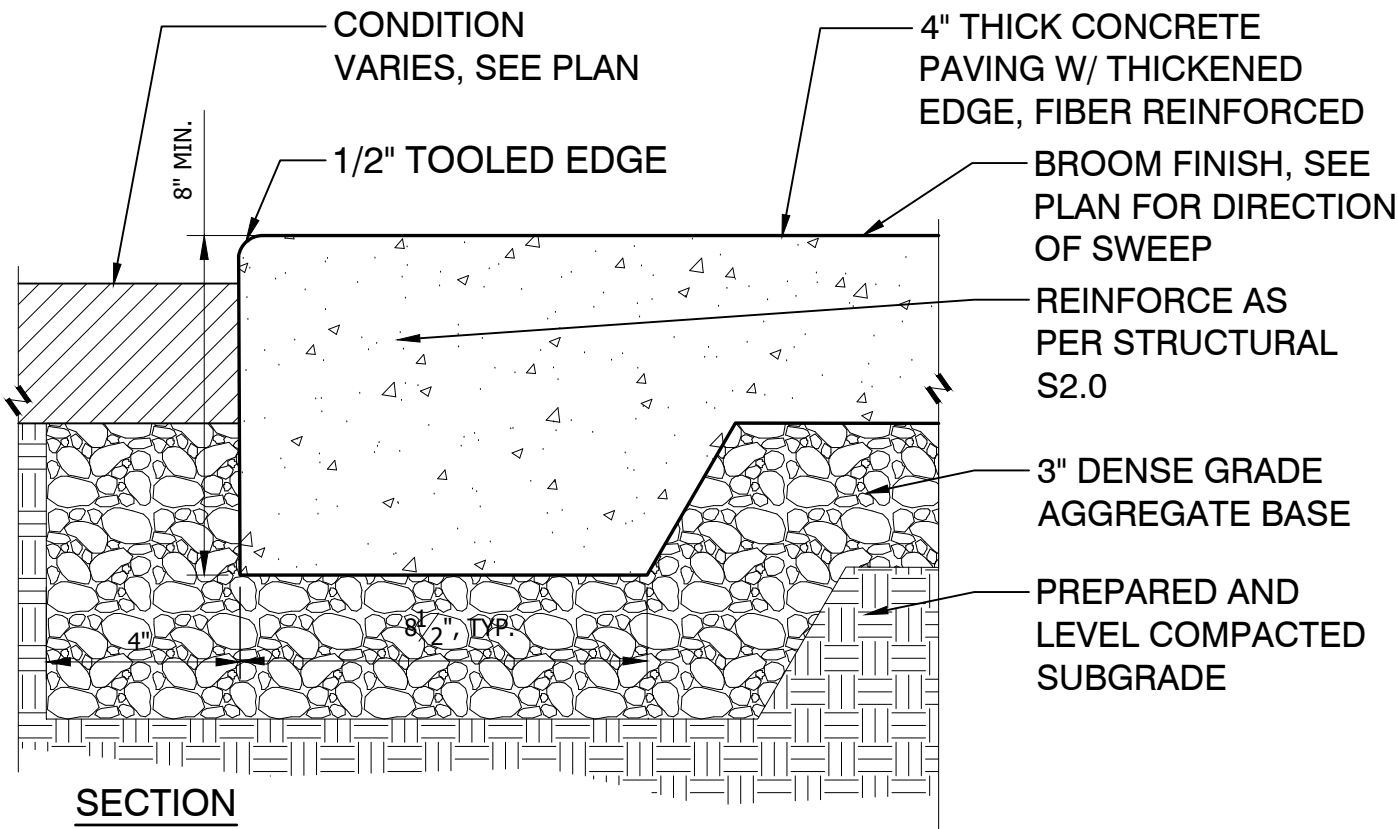
- NOTES:
1. INSTALL EXPANSION JOINT A MIN. OF EVERY 20'-0" AND WHERE NEW PAVING MEETS EXISTING CONCRETE PAVING, CURBS AND STRUCTURES.
 2. ADD DRAIN PIPE UNDER CONCRETE WALK EVERY 30'-0" OR AS OTHERWISE DETERMINED NECESSARY BY THE CONTRACTOR - SLOPE PIPE TOWARDS LANDSCAPE BEDS AND AWAY FROM SITE FEATURES.

1

CONCRETE WALK

3" = 1'-0"

P-PR-ASH-27



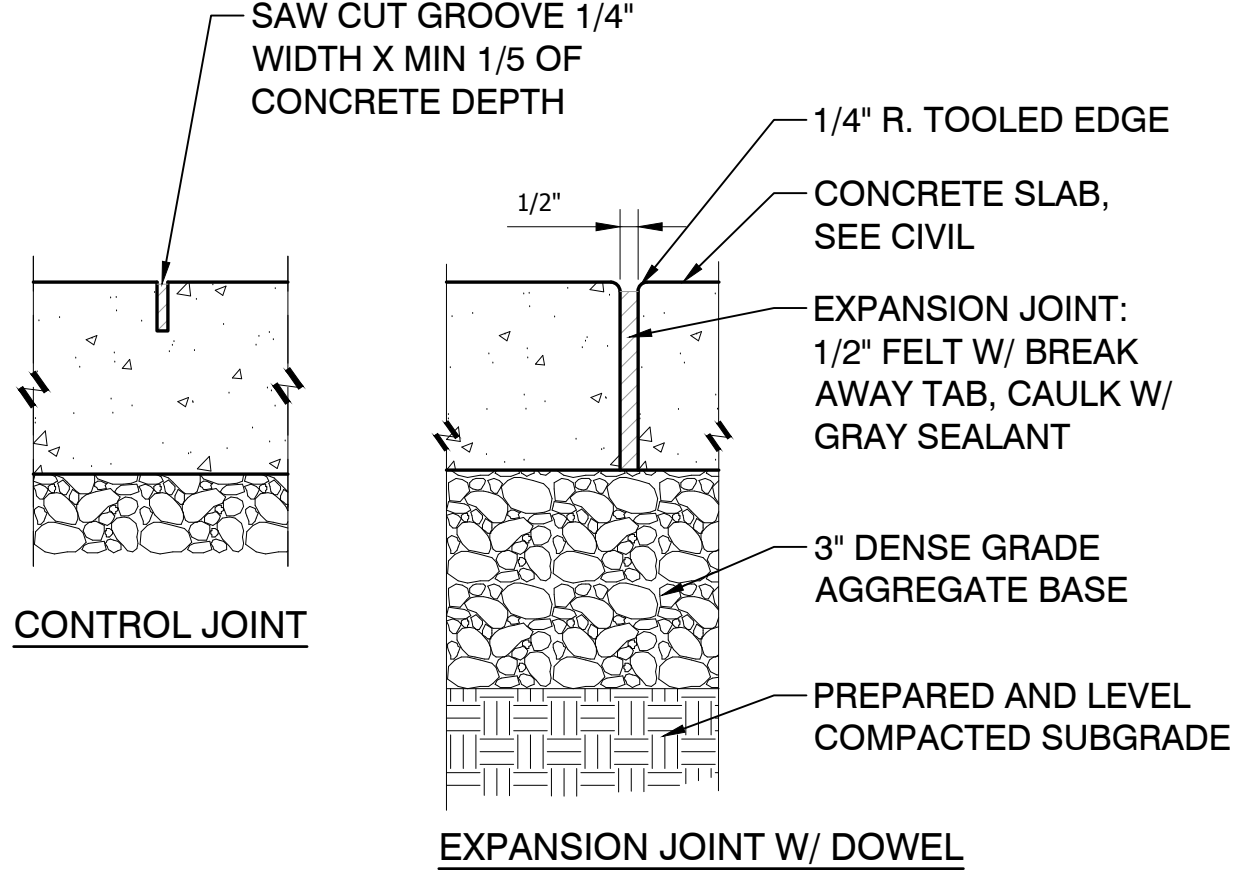
- NOTES:
1. INSTALL EXPANSION JOINT A MIN. OF EVERY 20'-0" AND WHERE NEW PAVING MEETS EXISTING CONCRETE PAVING, CURBS AND STRUCTURES.
 2. ADD DRAIN PIPE UNDER CONCRETE WALK EVERY 30'-0" OR AS OTHERWISE DETERMINED NECESSARY BY THE CONTRACTOR - SLOPE PIPE TOWARDS LANDSCAPE BEDS AND AWAY FROM SITE FEATURES.

2

C.I.P. REINFORCED CONCRETE SLAB

3" = 1'-0"

P-PR-ASH-25



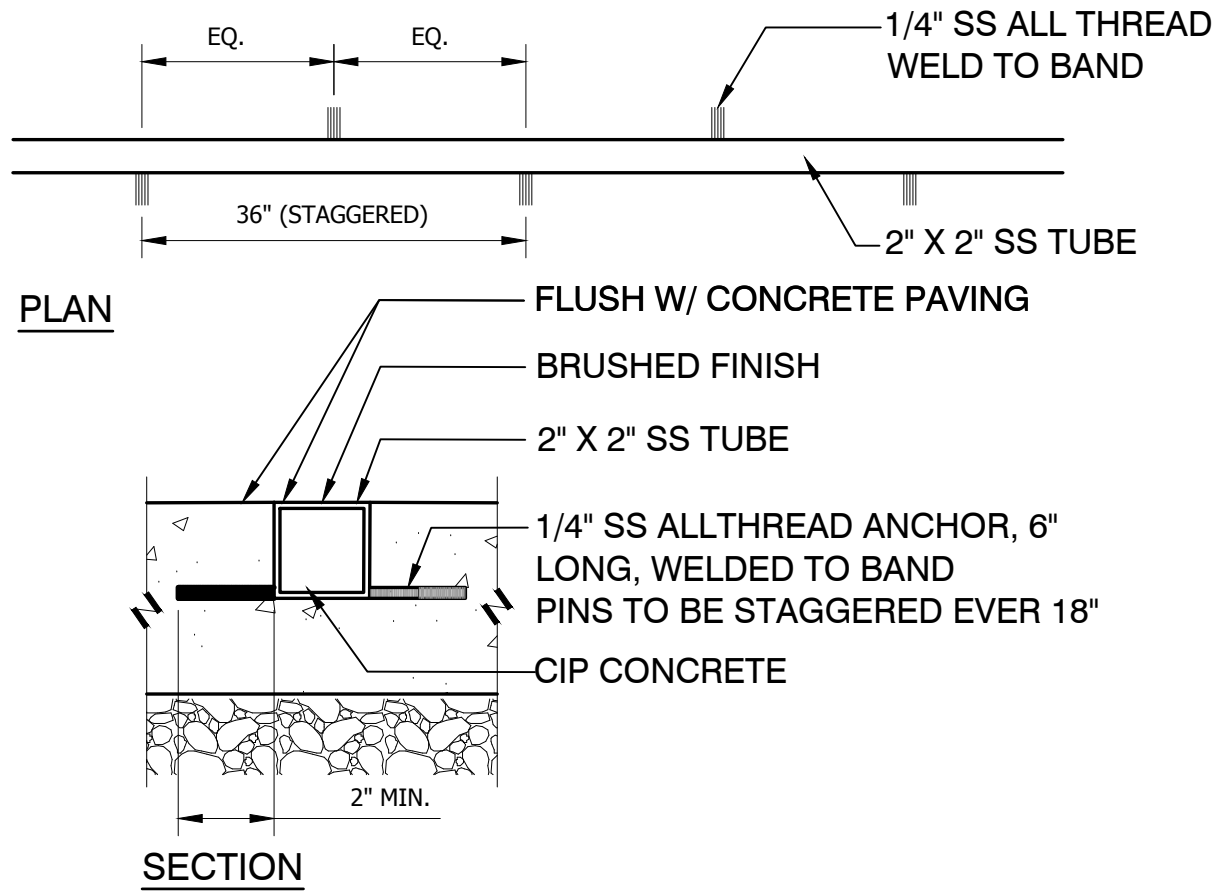
- NOTE:
- INSTALL EXPANSION AND CONTROL JOINTS AS NOTED IN CONCRETE DETAILS OR AS SPECIFIED ON PLANS. IF NOTES ARE NOT INCLUDED:
1. INSTALL EXPANSION JOINTS EVERY 20' OR WHERE NEW PAVING MEETS EXISTING CONCRETE PAVING, CURBS, CHANGES DIRECTION AND/OR MEETS STRUCTURES.
 2. ADD CONTROL JOINTS EVERY 8' OR AS OTHERWISE SPECIFIED.

3

CONTROL & EXPANSION JOINT

3" = 1'-0"

P-PR-ASH-29



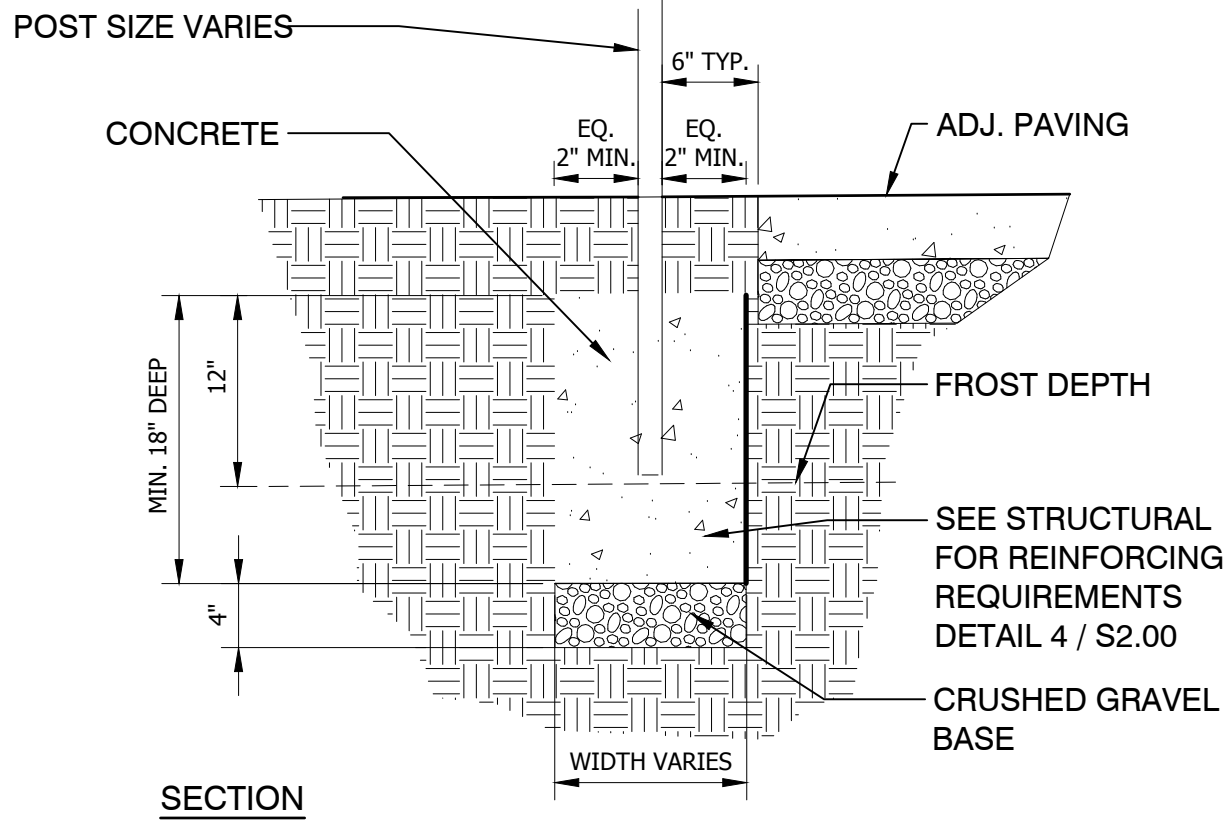
- NOTES:
1. SS TUBE WALL THICKNESS .20
 2. SS TUBE FINISH TO DETER SLIPPING
 3. USE METAL BAND AS SCREED FOR PLAZA

4

INLAID METAL BAND

3" = 1'-0"

P-PR-ASH-58



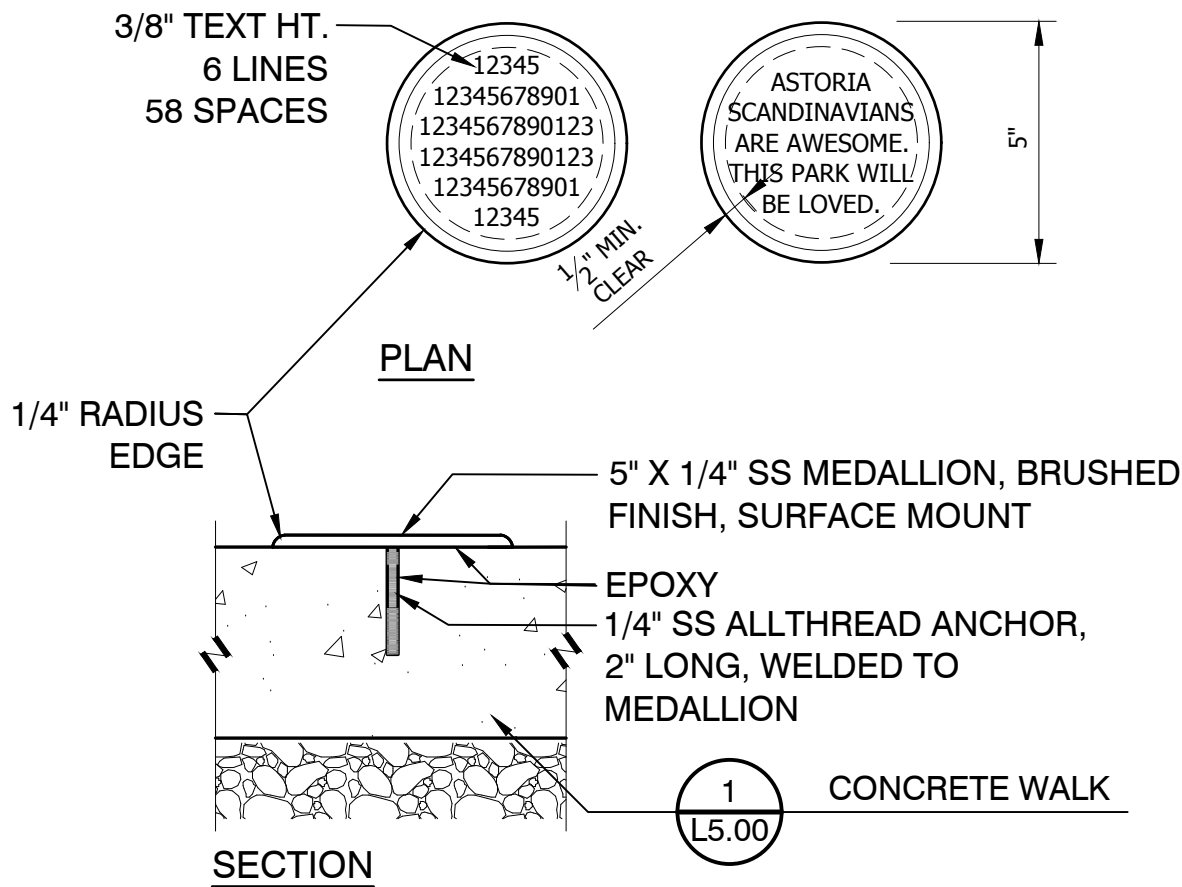
- NOTES:
1. USE FOR INSTALLATION OF SIGN POSTS AND IN-GROUND INTERPRETIVE PANELS.

5

FOOTING (TYP.)

1" = 1'-0"

P-PR-ASH-126



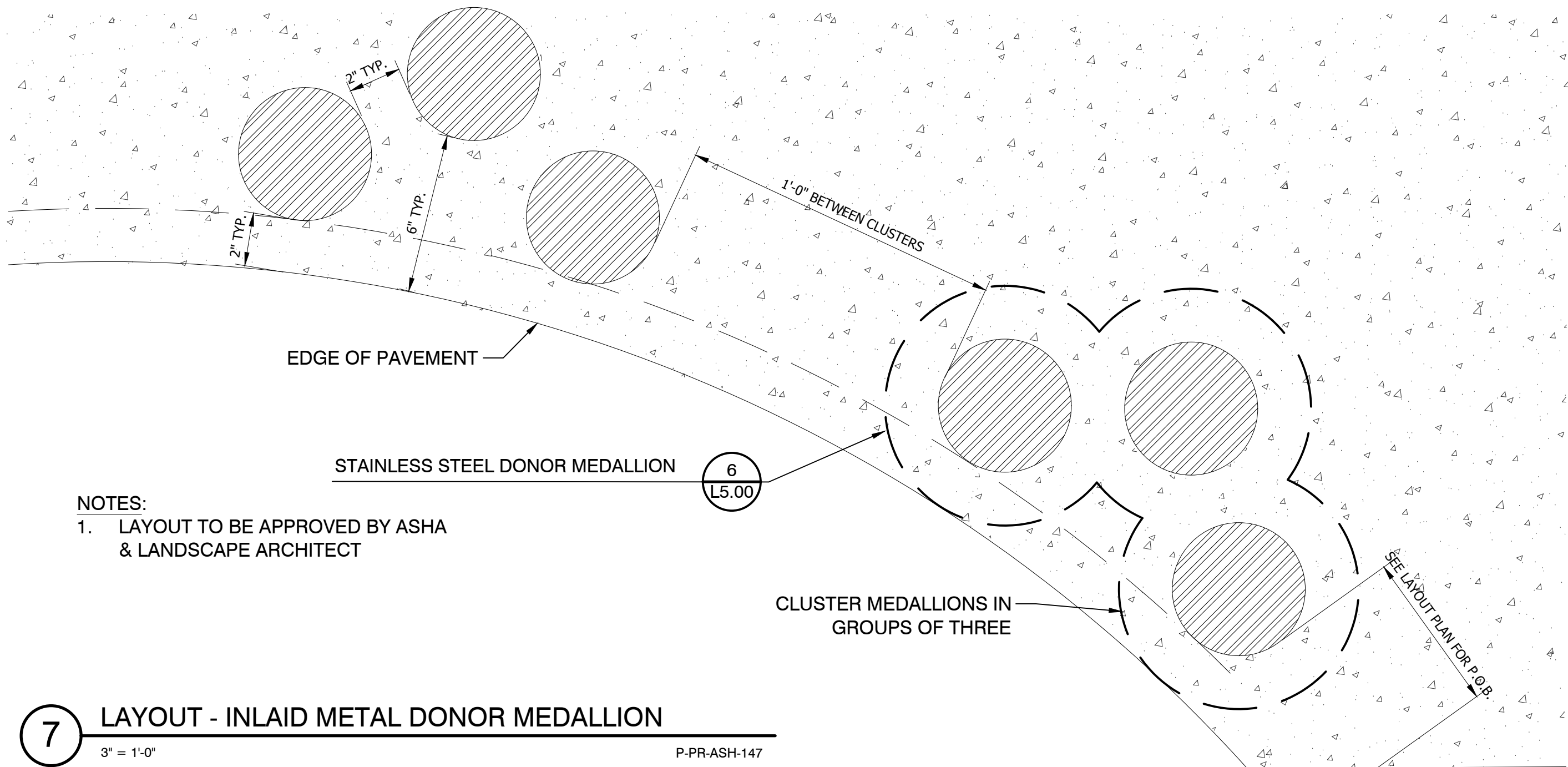
- NOTES:
1. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY ASHA & LANDSCAPE ARCHITECT

6

STAINLESS STEEL DONOR MEDALLION

3" = 1'-0"

P-PR-ASH-57



- NOTES:
1. LAYOUT TO BE APPROVED BY ASHA & LANDSCAPE ARCHITECT

7

LAYOUT - INLAID METAL DONOR MEDALLION

3" = 1'-0"

P-PR-ASH-147

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



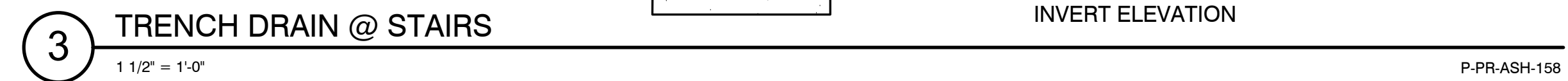
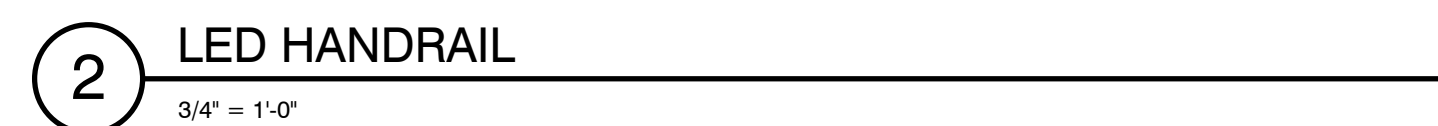
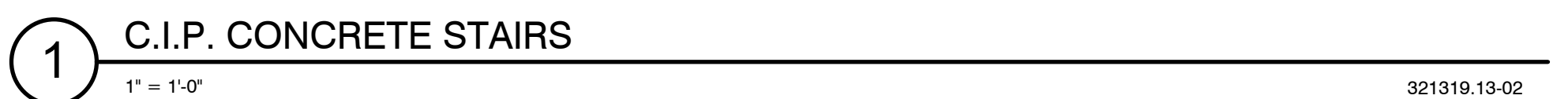
PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
**ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION**
PO BOX 34
ASTORIA, OREGON 97103

**ASTORIA SCANDINAVIAN
HERITAGE PARK**

HARDSCAPE DETAILS

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L5.00
SHEET NO:	27 OF 49



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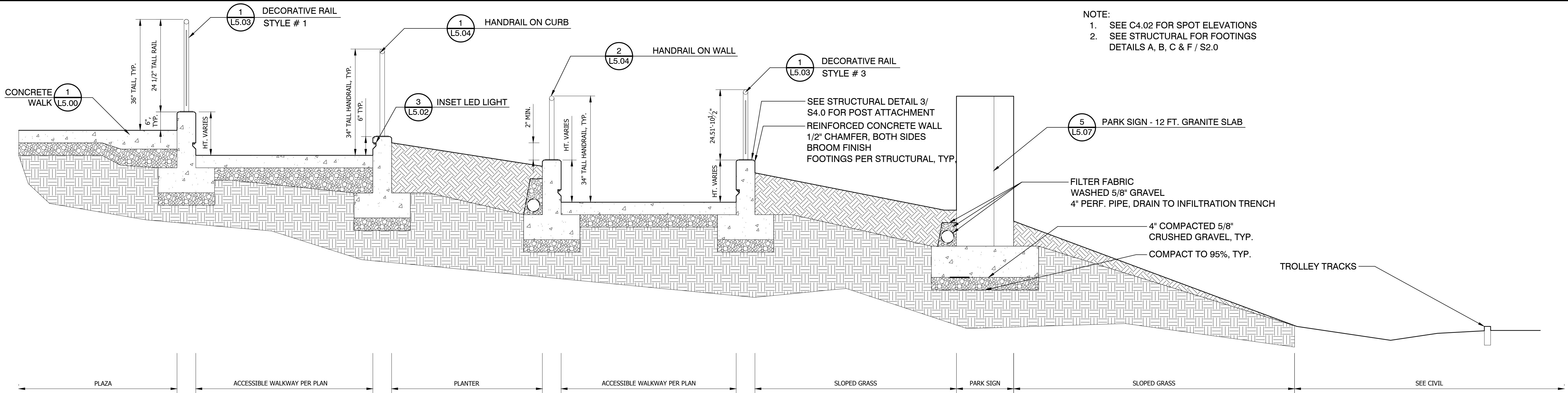
PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK HARDSCAPE DETAILS

SCALE:	AS SHOWN	
PROJECT NO:	18002	
DRAWING NO:	L5.01	
SHEET NO:	28	OF 49

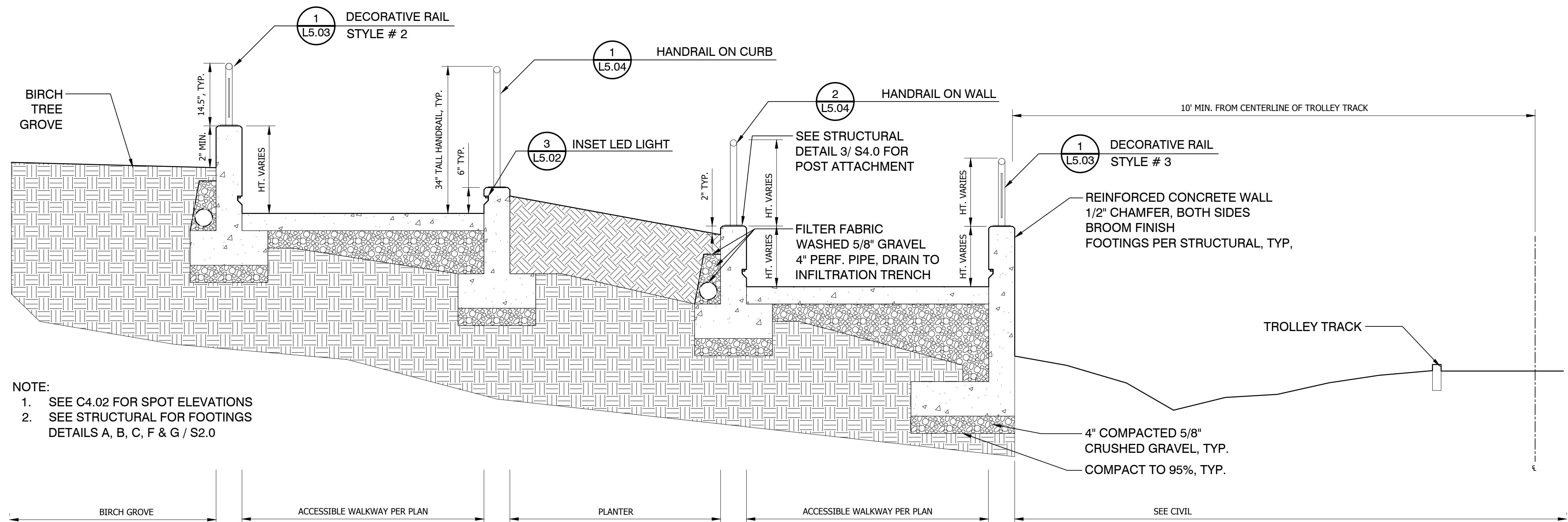
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1 ACCESSIBLE WALKWAY - WEST

3/4" = 1'-0"

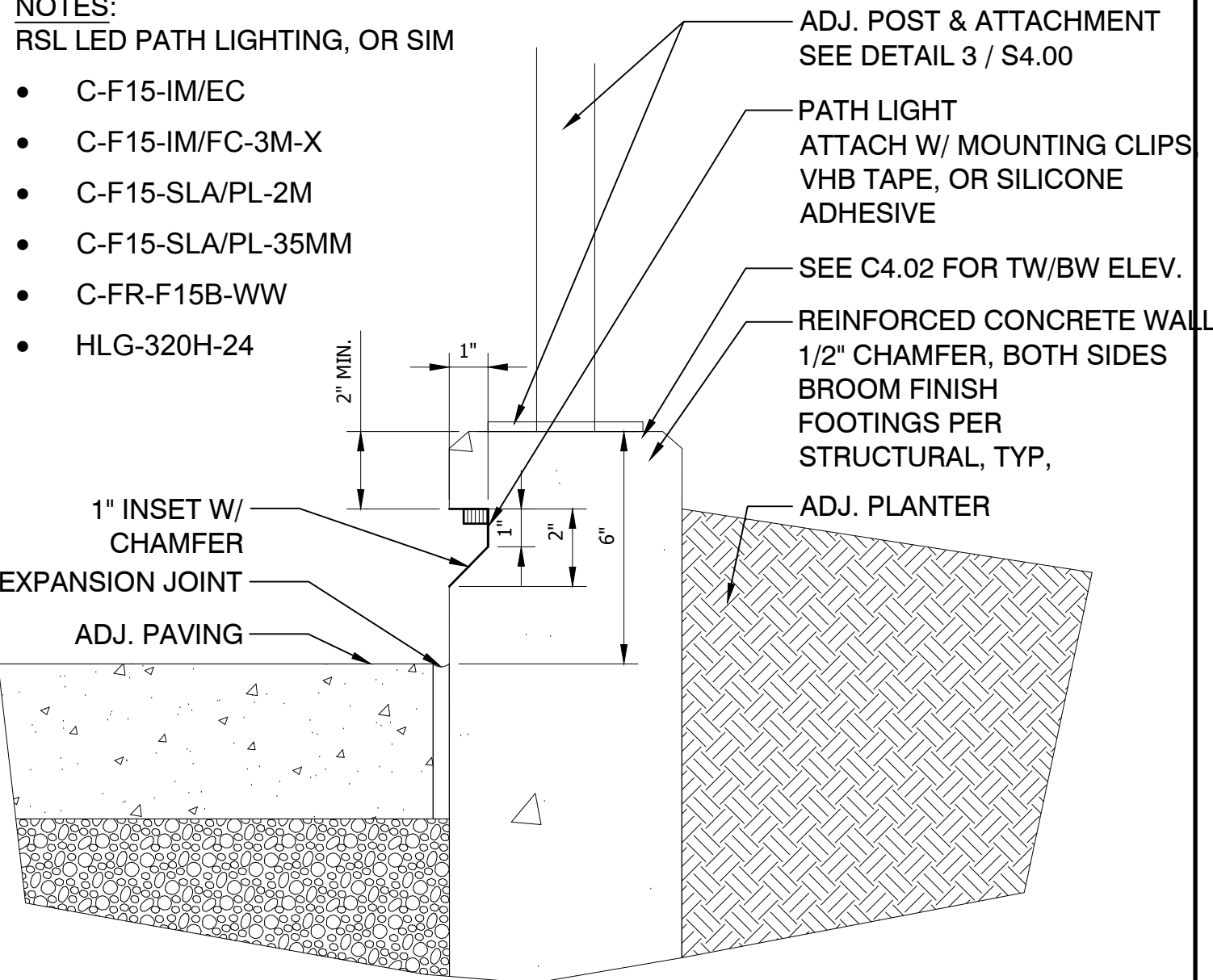
P-PR-ASH-132



NOTES:

RSL LED PATH LIGHTING, OR SIM

- C-F15-IM/EC
- C-F15-IM/FC-3M-X
- C-F15-SLA/PL-2M
- C-F15-SLA/PL-35MM
- C-FR-F15B-WW
- HLG-320H-24



2 ACCESSIBLE WALKWAY - SECTION - EAST

3/4" = 1'-0"

P-PR-ASH-148

3 INSET LED LIGHT

3" = 1'-0"

P-PR-ASH-150

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

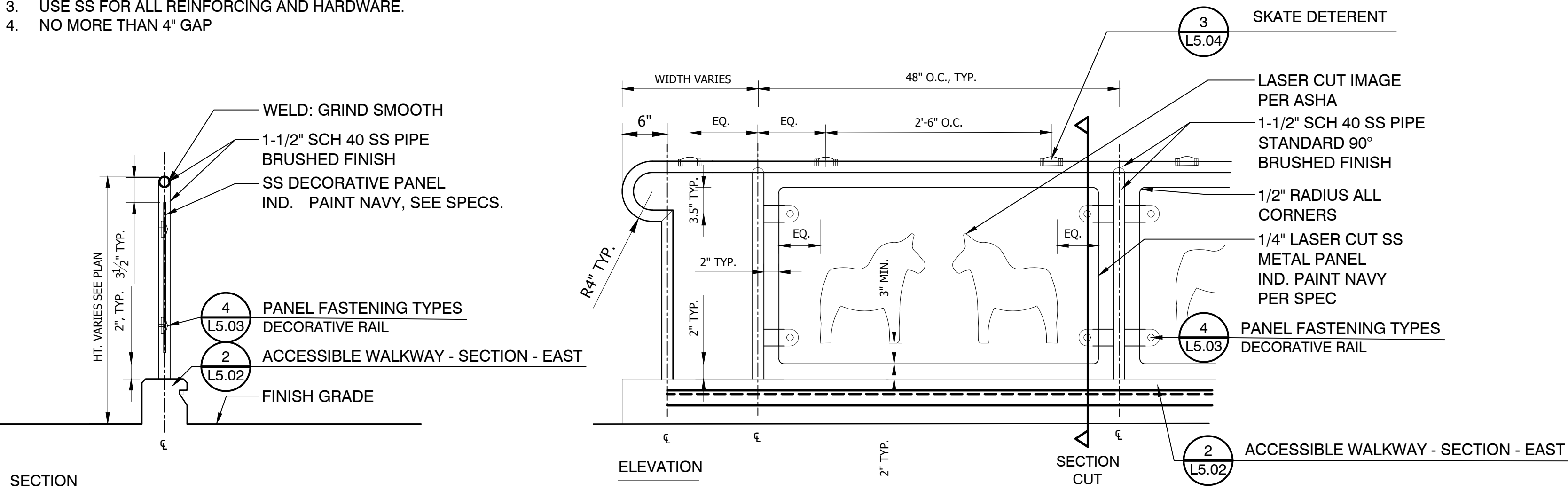
ASTORIA SCANDINAVIAN
HERITAGE PARK
HARDSCAPE DETAILS

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L5.02
SHEET NO:	29 OF 49

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- NOTE:
1. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY LANDSCAPE ARCHITECT.
 2. ALL PANELS TO BE UNIQUE. ARTISAN TO WORK WITH ASHA FOR FINAL IMAGE SELECTIONS.
 3. USE SS FOR ALL REINFORCING AND HARDWARE.
 4. NO MORE THAN 4" GAP

DECORATIVE PANEL DIMENSIONS:
STYLE 1: WEST WING UPPER WALL PANEL, 30 1/2" x 42 1/2"
STYLE 2: EAST WING UPPER WALL PANEL, 16 1/2" x 42 1/2"
STYLE 3: EAST & WEST WINGS LOWER WALL PANELS, 18 1/2" x 42 1/2"
STYLE 4: INTERPRETIVE SIGN, 19 1/2" x WIDTH PER PLAN



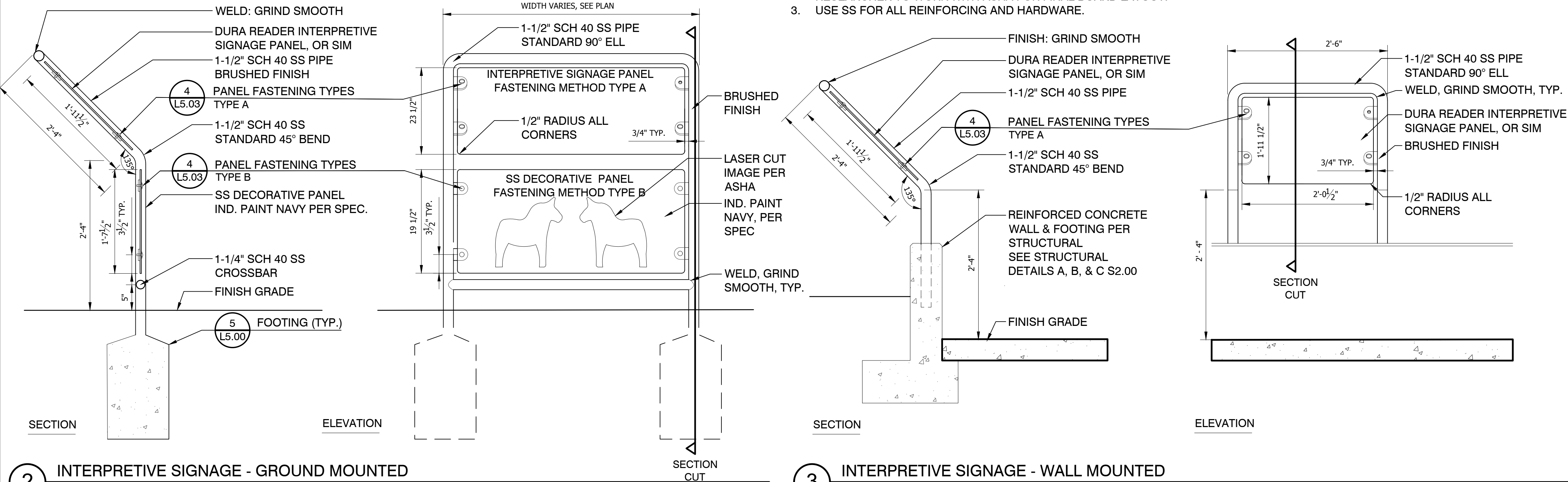
1 DECORATIVE RAIL

1" = 1'-0"

P-PR-ASH-154

- NOTE:
1. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY LANDSCAPE ARCHITECT.
 2. ALL INTERPRETIVE PANELS AND DECORATIVE PANELS TO BE UNIQUE. ARTISAN / RESEARCHER TO WORK WITH ASHA FOR FINAL BOARD LAYOUT.
 3. USE SS FOR ALL REINFORCING AND HARDWARE.

- NOTE:
1. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY LANDSCAPE ARCHITECT.
 2. ALL INTERPRETIVE PANELS TO BE UNIQUE. ARTISAN / RESEARCHER TO WORK WITH ASHA FOR FINAL BOARD LAYOUT.
 3. USE SS FOR ALL REINFORCING AND HARDWARE.



2 INTERPRETIVE SIGNAGE - GROUND MOUNTED

1" = 1'-0"

P-PR-ASH-113

3 INTERPRETIVE SIGNAGE - WALL MOUNTED

1" = 1'-0"

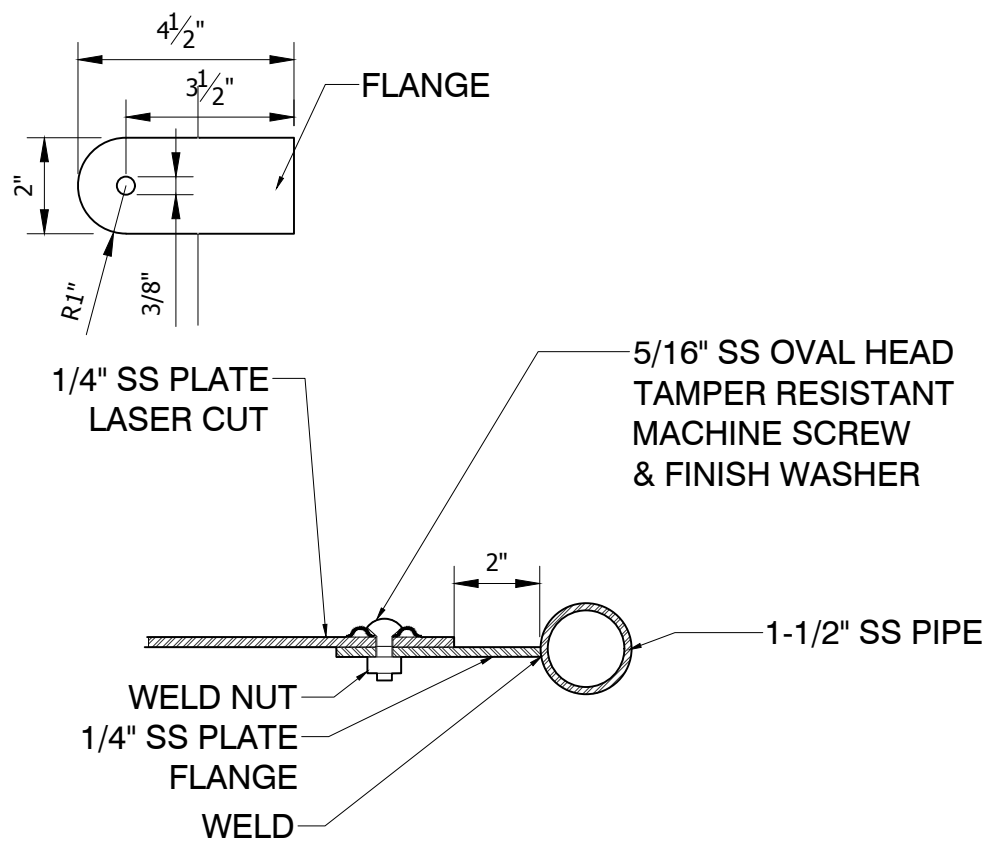
P-PR-ASH-114

4 PANEL FASTENING TYPES

3" = 1'-0"

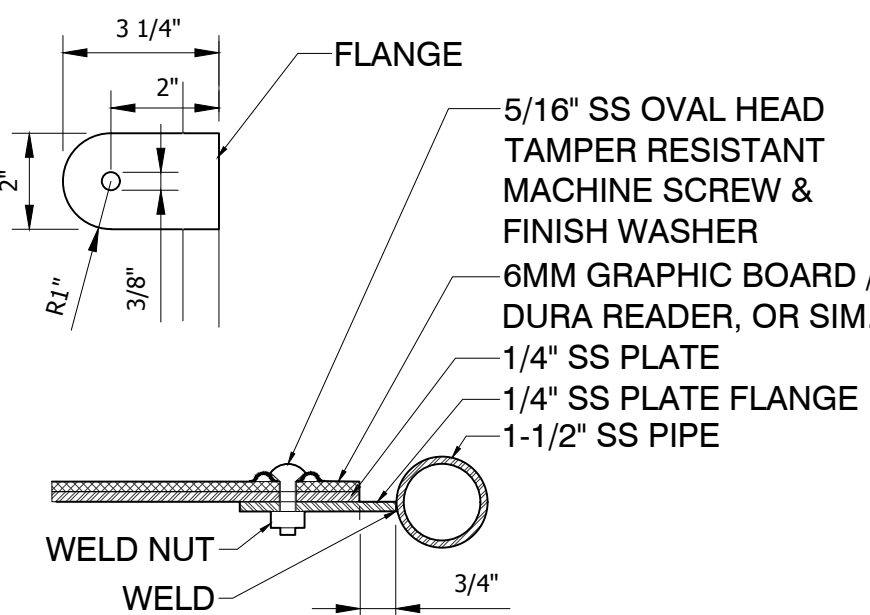
P-PR-ASH-161

DECORATIVE RAIL PANEL ATTACHMENT

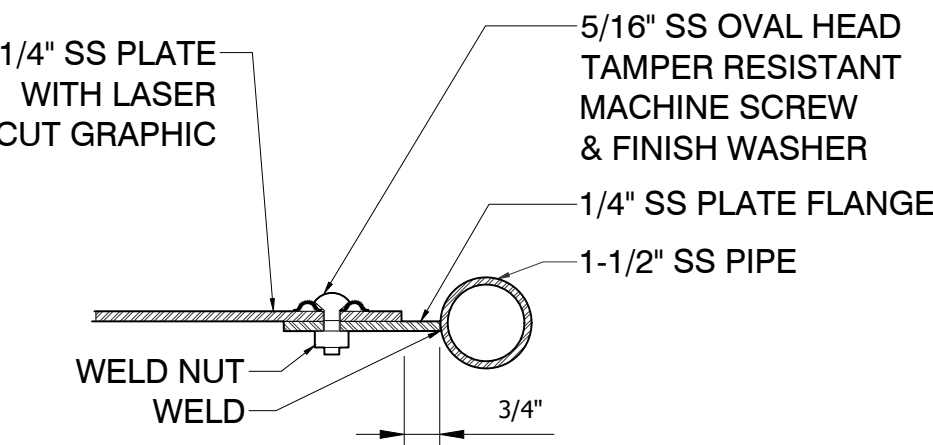


INTERPRETIVE SIGNAGE PANEL

TYPE A - INTERPRETIVE PANEL ATTACHMENT



TYPE B - DECORATIVE PANEL ATTACHMENT



DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103
CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

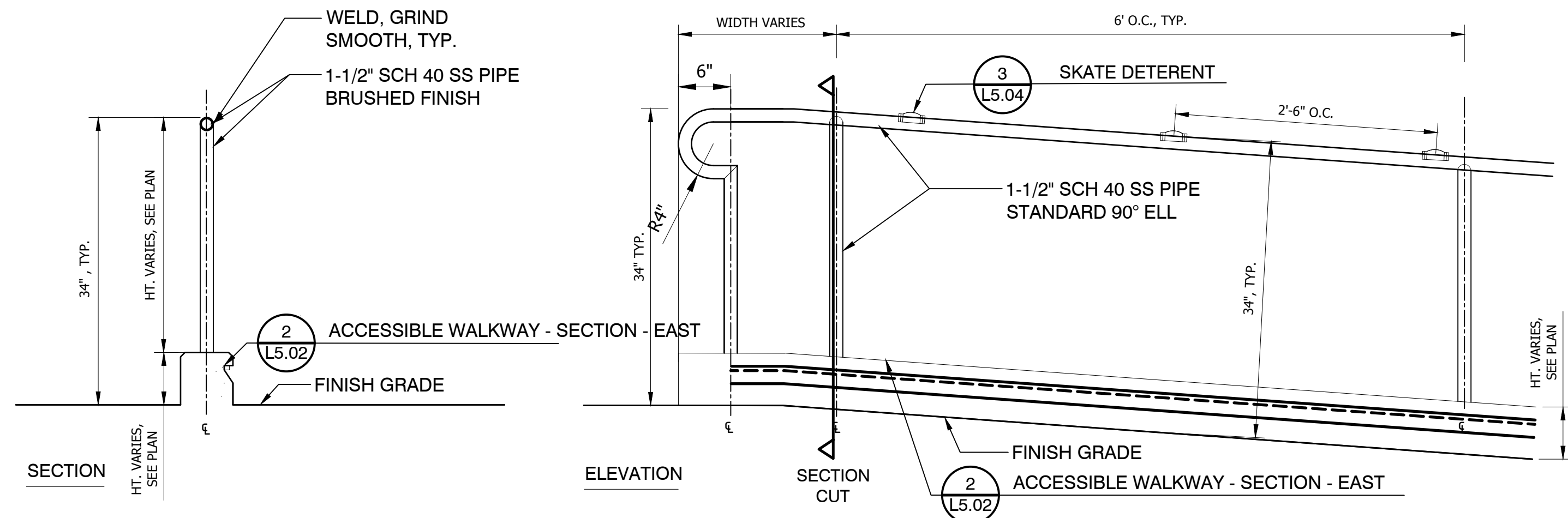
ASTORIA SCANDINAVIAN
HERITAGE PARK
HARDSCAPE DETAILS

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L5.03
SHEET NO:	30 OF 49

ORIGINATED BY: / DATE: /
CORRECTED BY: / DATE: /
BACK-CHECKED BY: / DATE: /
10/4/2018 7:49 PM

VERIFIED BY: / DATE: /

- NOTE:
- SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY LANDSCAPE ARCHITECT.
 - USE SS FOR ALL REINFORCING AND HARDWARE.
 - SEE C4.02 FOR TW / BW ELEVATIONS

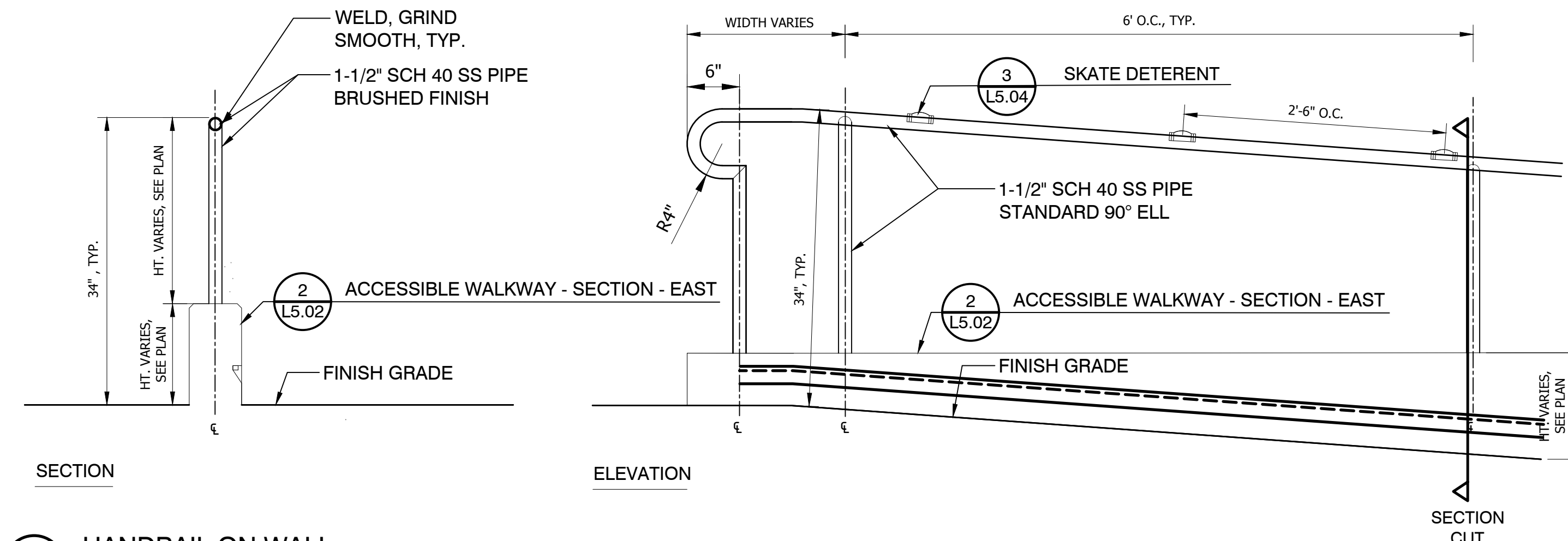


1 HANDRAIL ON CURB

1" = 1'-0"

P-PR-ASH-RISE-02

- NOTE:
- SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY LANDSCAPE ARCHITECT
 - USE SS FOR ALL REINFORCING AND HARDWARE
 - SEE C4.02 FOR TW / BW ELEVATIONS

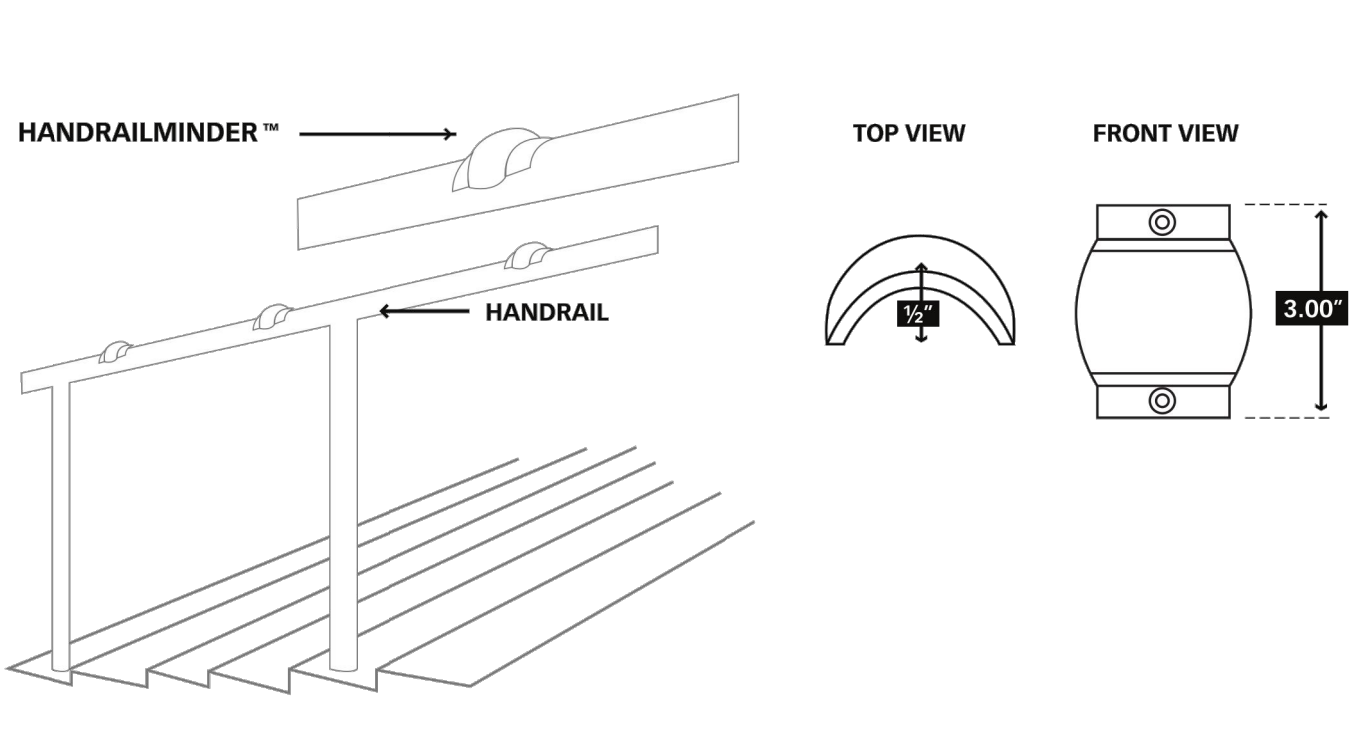


2 HANDRAIL ON WALL

1" = 1'-0"

P-PR-ASH-RISE-03

- NOTE:
- SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY LANDSCAPE ARCHITECT.
 - ALL HARDWARE TO BE SS

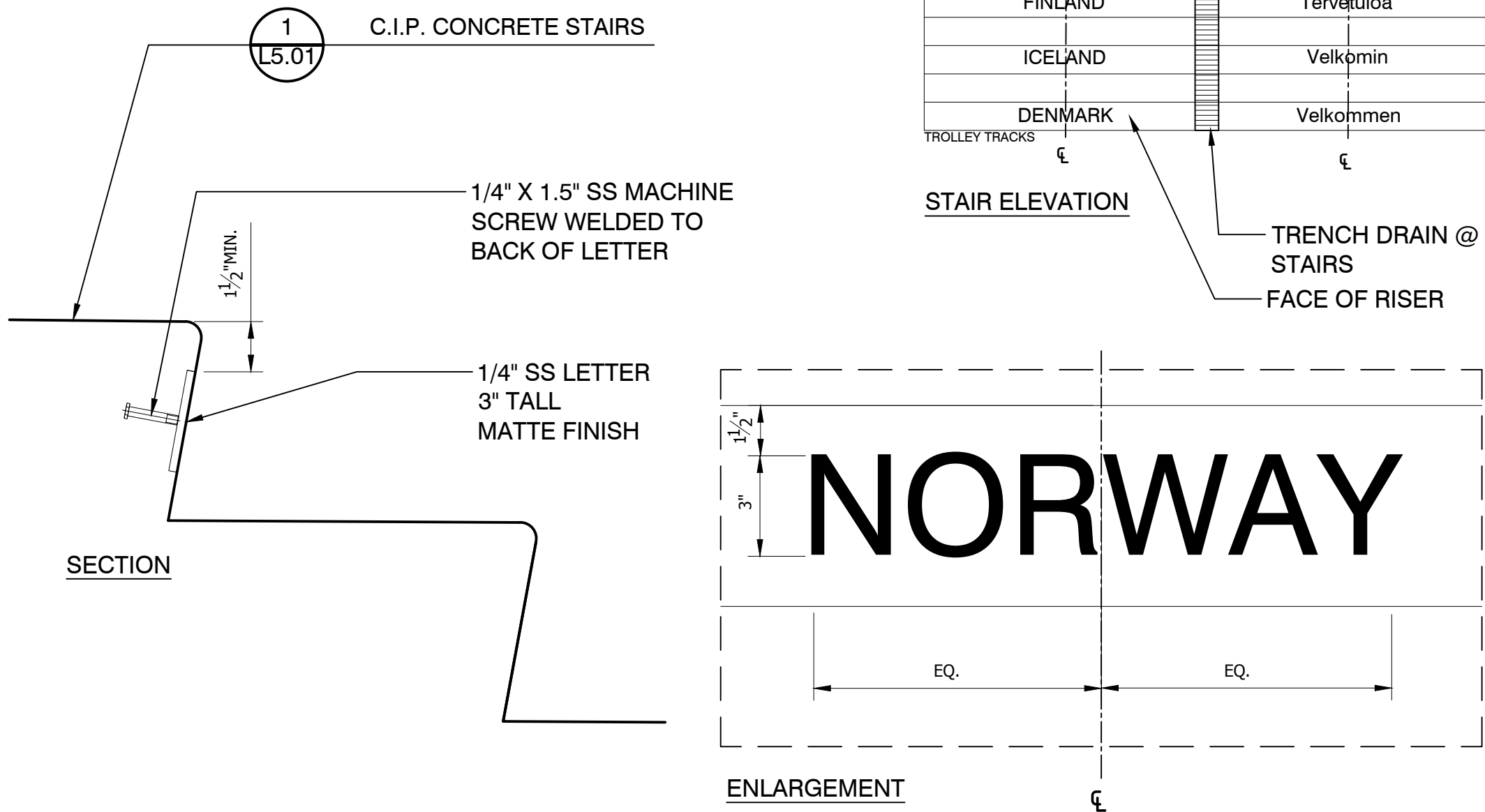


- NOTES:
- SEE SPECS FOR MANUFACTURER AND INSTALL INSTRUCTIONS.
 - GRIND TO A HALT SKATE DETERENT, OR SIM
 - ENSURE SKATE DETERENT SIZE TO FIT 1.5" DIA HANDRAIL
 - MATERIAL: CAST ALUMINUM W/ CLEAR ANODIZE COATING
 - ANCHOR WITH 2 TAMPER RESISTANT SCREWS AND BARREL NUTS
 - SPACE SKATE DETERRENTS PER DETAIL.
 - PART CANNOT BE APPLIED OVER A POST.

3 SKATE DETERENT

NTS

P-PR-ASH-125



4 EMBEDDED STAIR LETTERING

3" = 1'-0"

P-PR-ASH-155

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



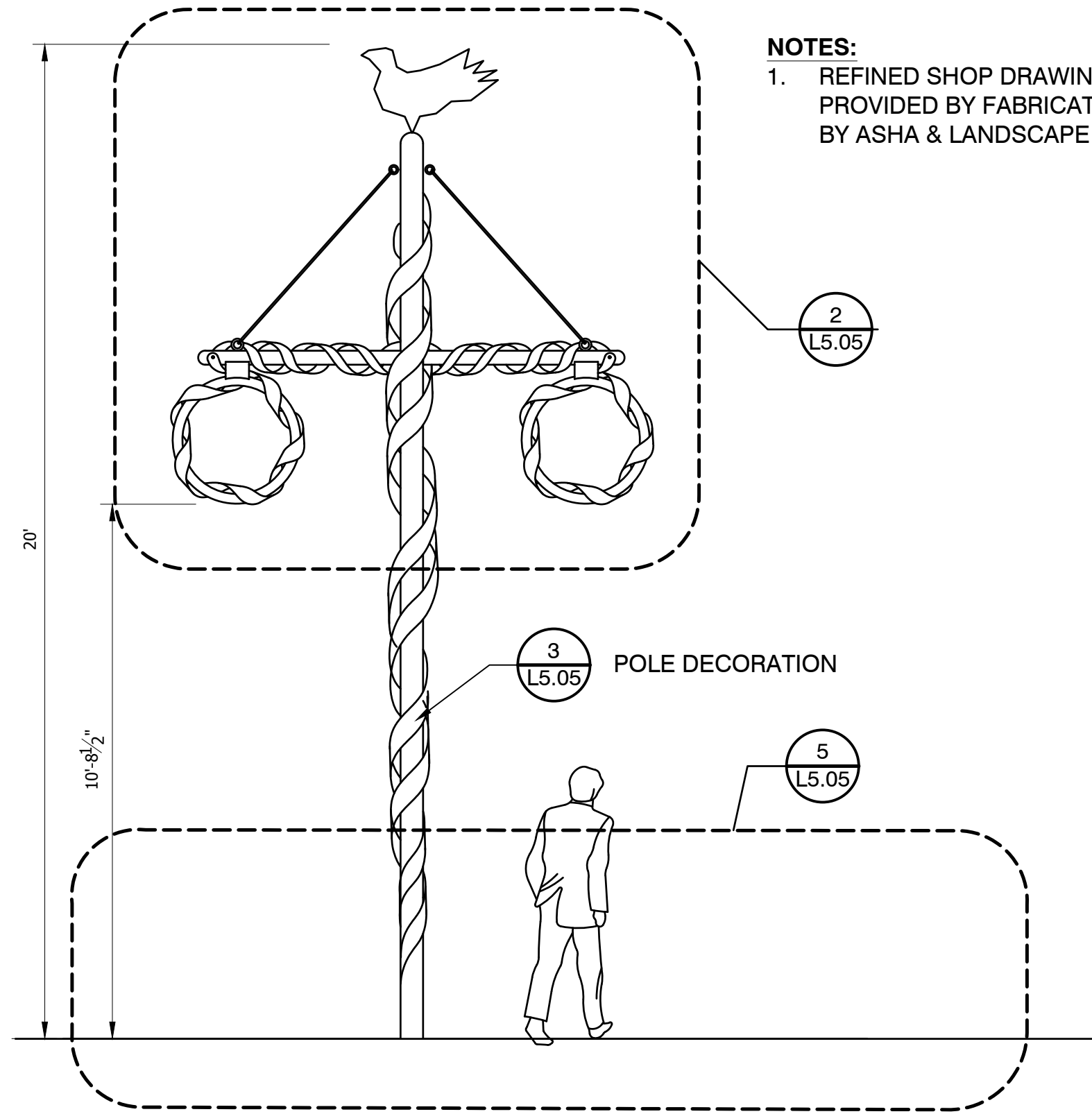
PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

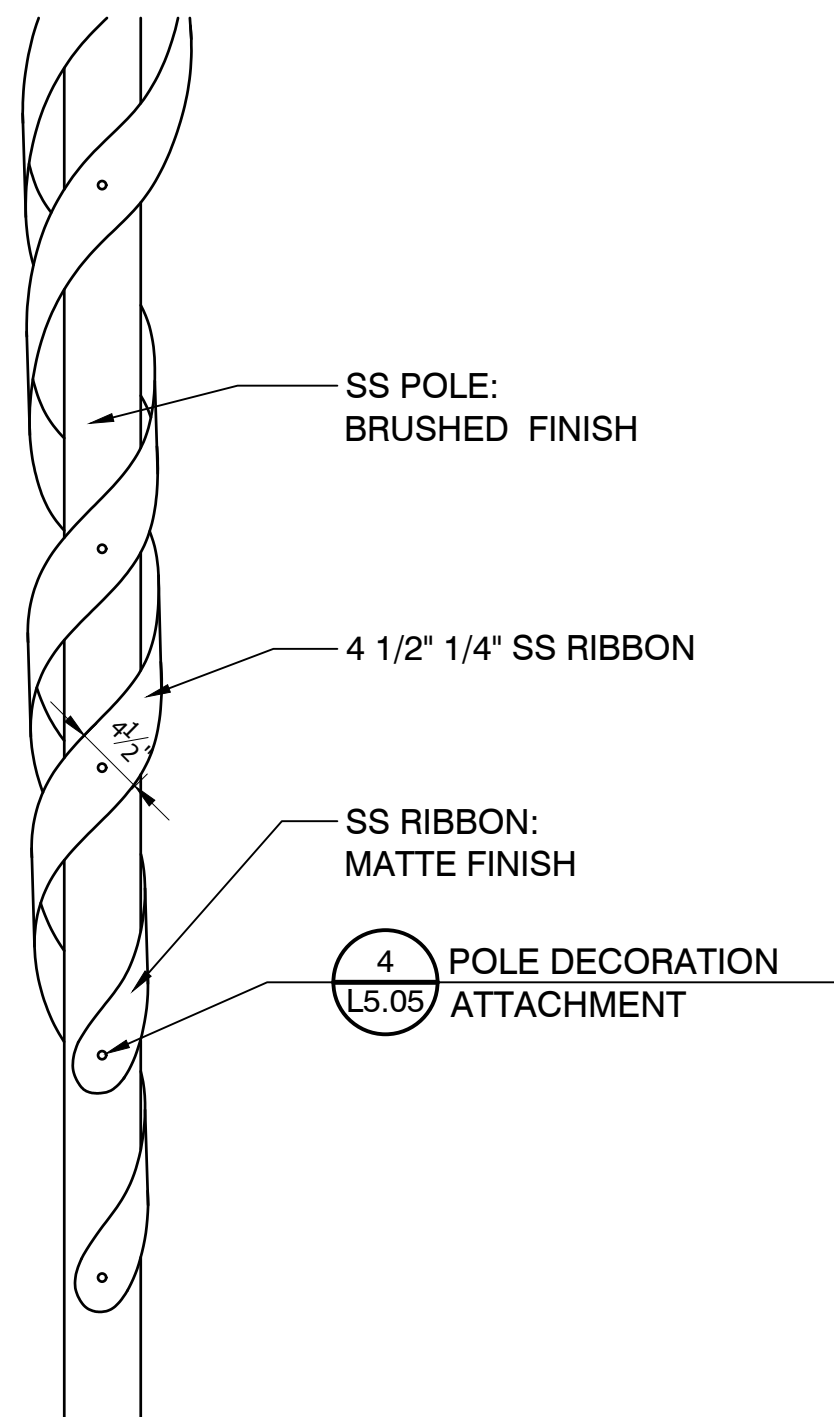
ASTORIA SCANDINAVIAN HERITAGE PARK

HARDSCAPE DETAILS

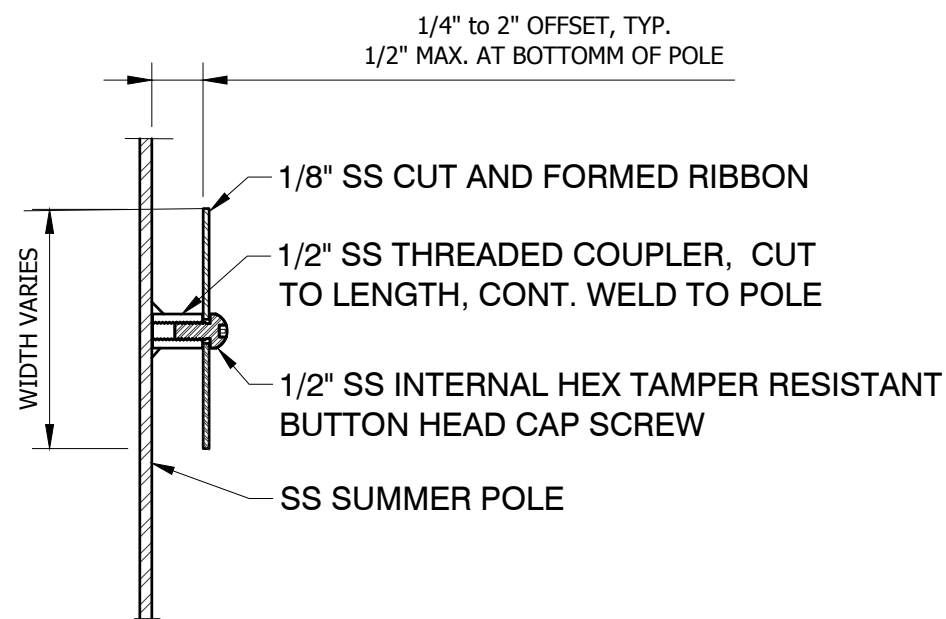
SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: L5.04
SHEET NO: 31 OF 49



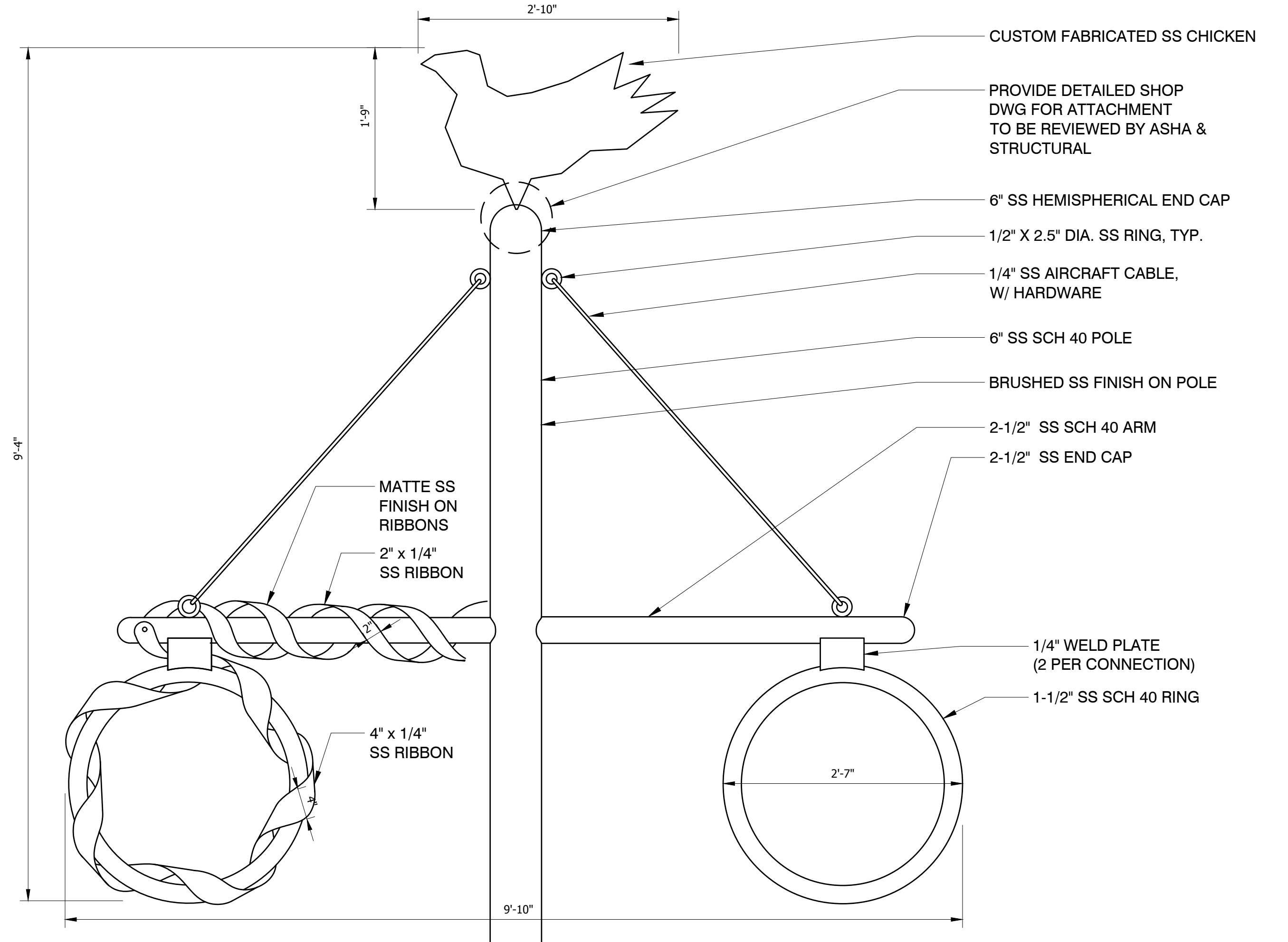
1 MIDSUMMER POLE
3/8" = 1'-0" P-PR-ASH-103



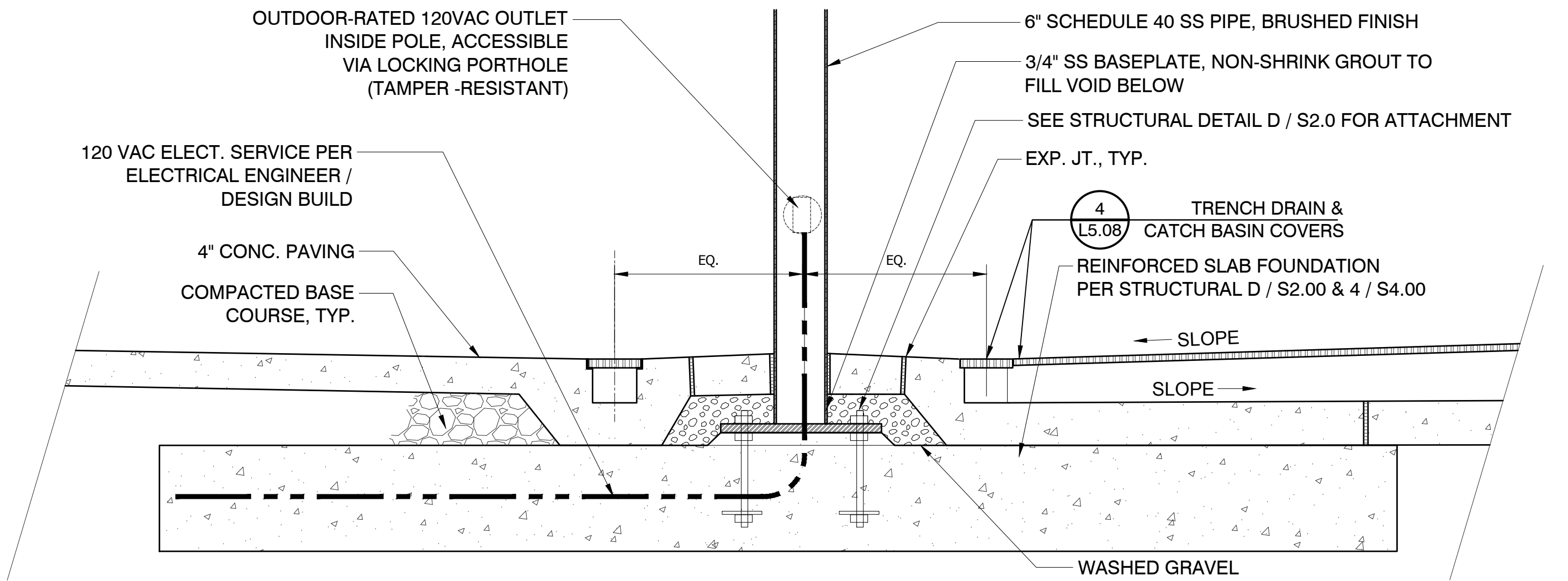
3 POLE DECORATION
1" = 1'-0" P-PR-ASH-101



4 POLE DECORATION ATTACHMENT
3" = 1'-0" P-PR-ASH-102



2 MIDSUMMER POLE TOP
1" = 1'-0" P-PR-ASH-99



5 MIDSUMMER POLE BASE
1" = 1'-0" P-PR-ASH-100

DRAWING ISSUE			DATE
100% ENGINEERED PLANS			02/01/2019
No.	REVISION	DATE	
NOT FOR CONSTRUCTION			



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



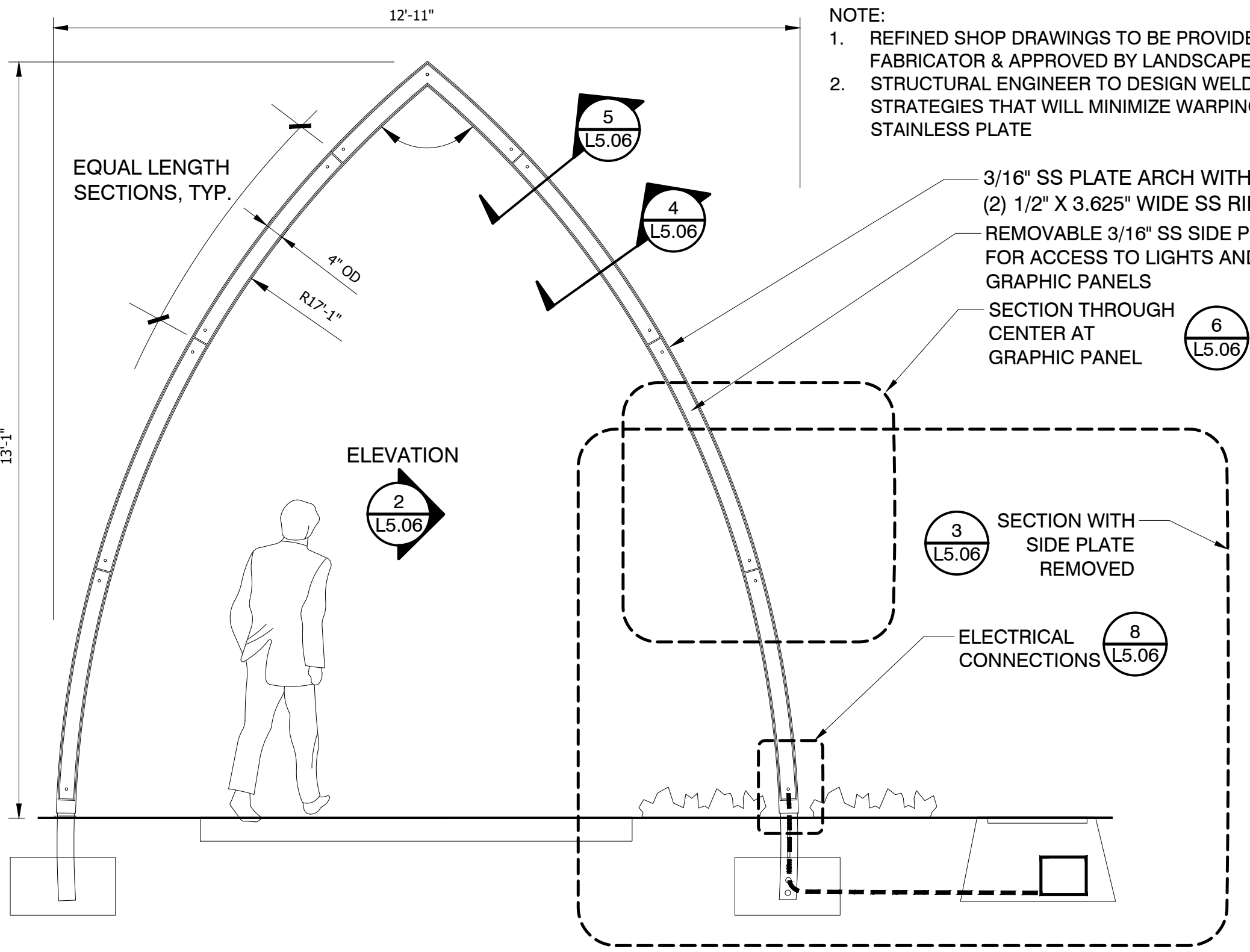
PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103
CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
HARDSCAPE DETAILS

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: L5.05
SHEET NO: 32 OF 49

ORIGINATED BY: / DATE: /
CHECKED BY: / DATE: /
BACK-CHECKED BY: / DATE: /
10/4/2018 7:49 PM

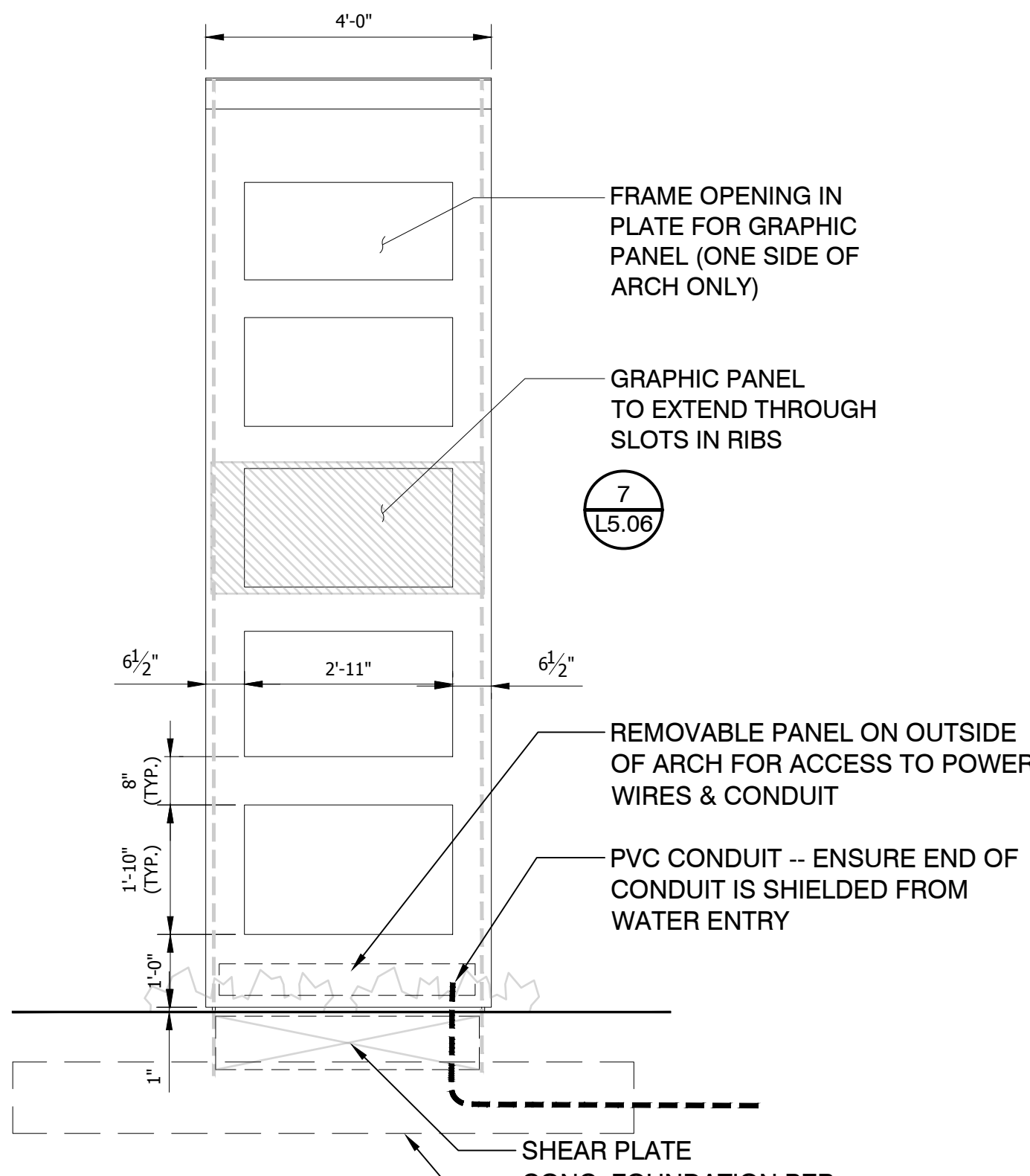
CORRECTED BY: / DATE: /
VERIFIED BY: / DATE: /



1 ENTRY ARCH

1/2" = 1'-0"

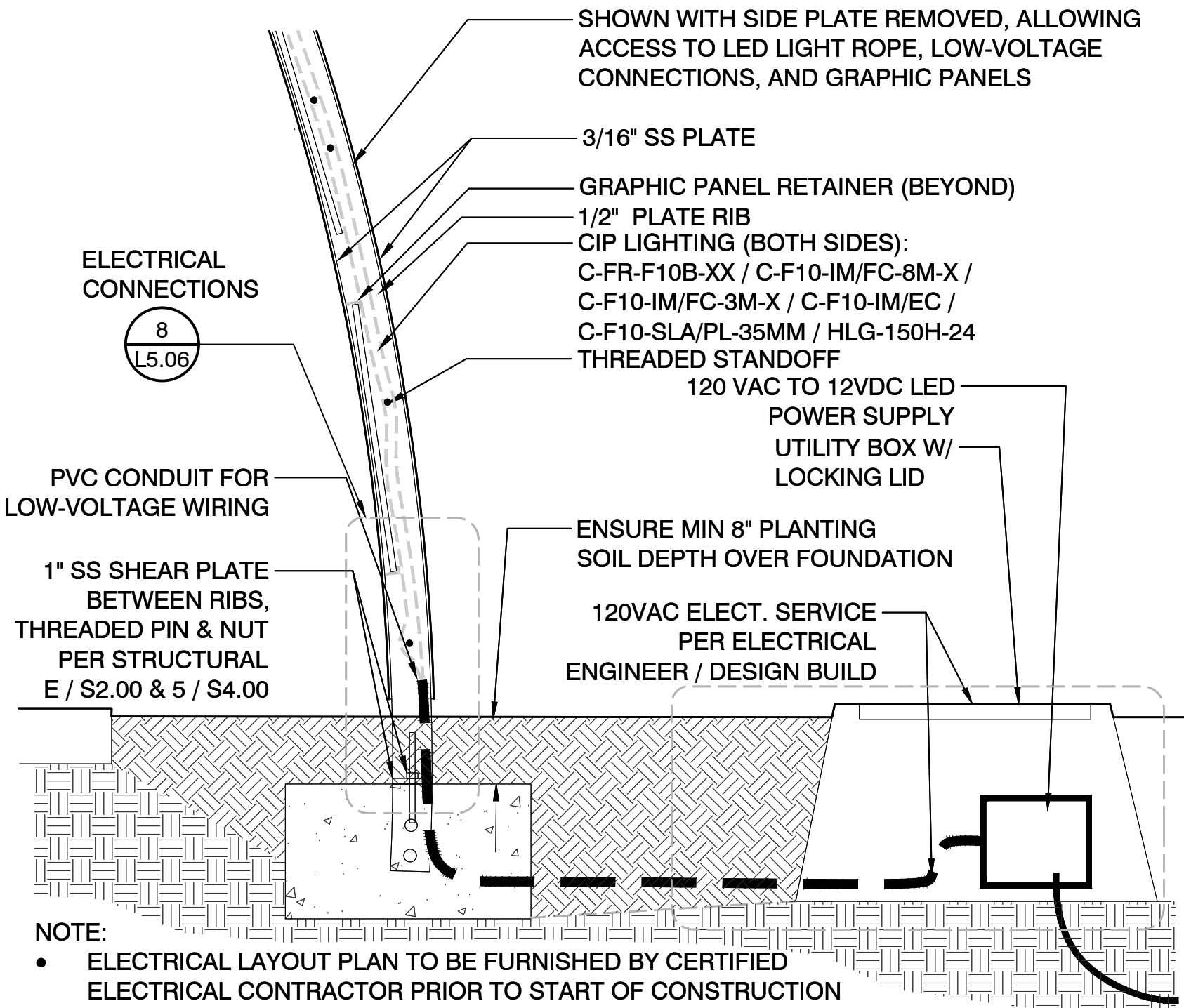
P-PR-ASH-104



2 ARCH INTERIOR ELEVATION

1/2" = 1'-0"

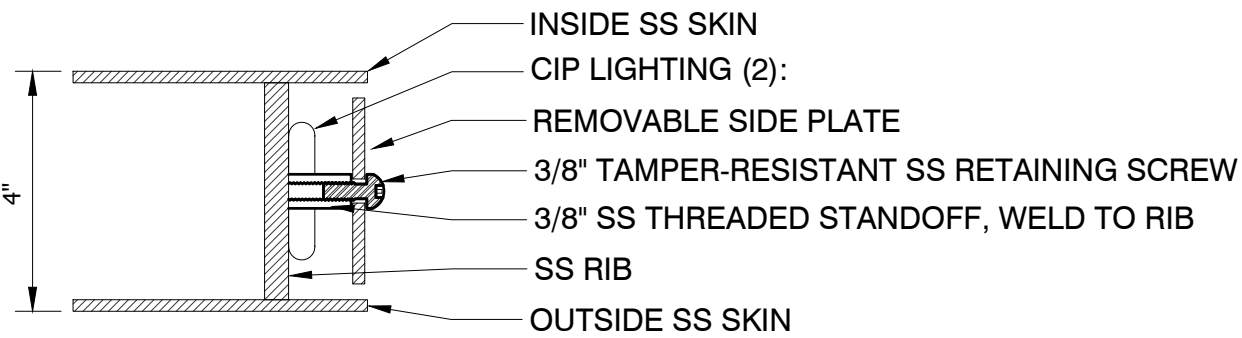
P-PR-ASH-105



3 ARCH SECTION W/ SIDE PLATE REMOVED

1" = 1'-0"

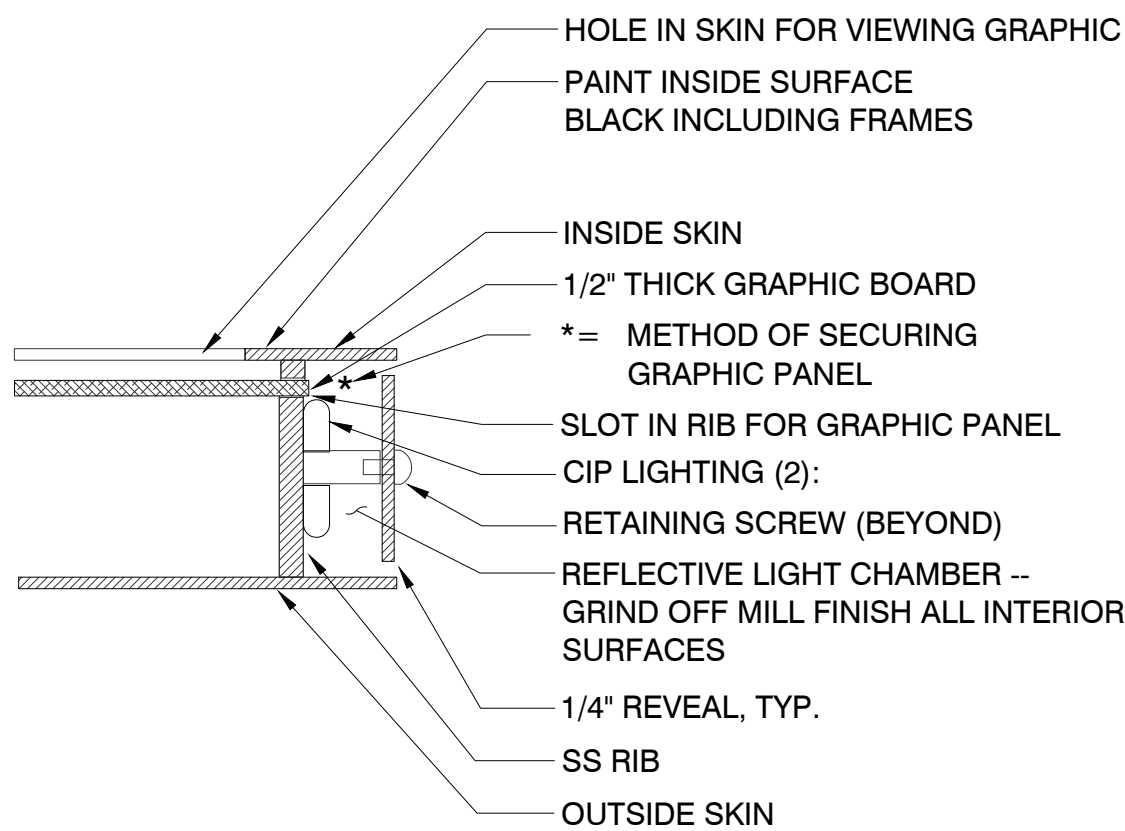
P-PR-ASH-106



4 ARCH ACCESS TO LIGHTS

3" = 1'-0"

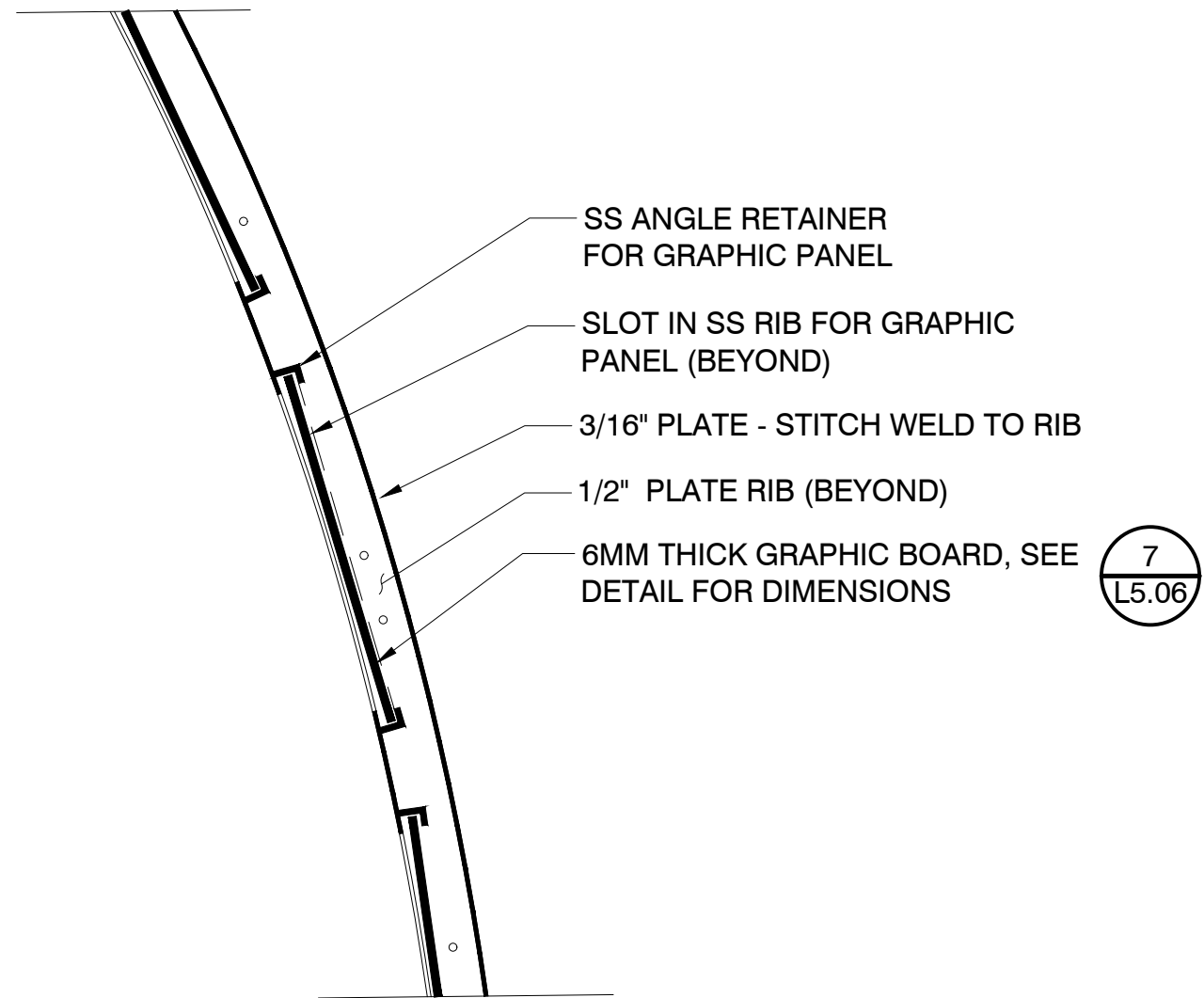
P-PR-ASH-108



5 ARCH ACCESS TO GRAPHIC PANEL

3" = 1'-0"

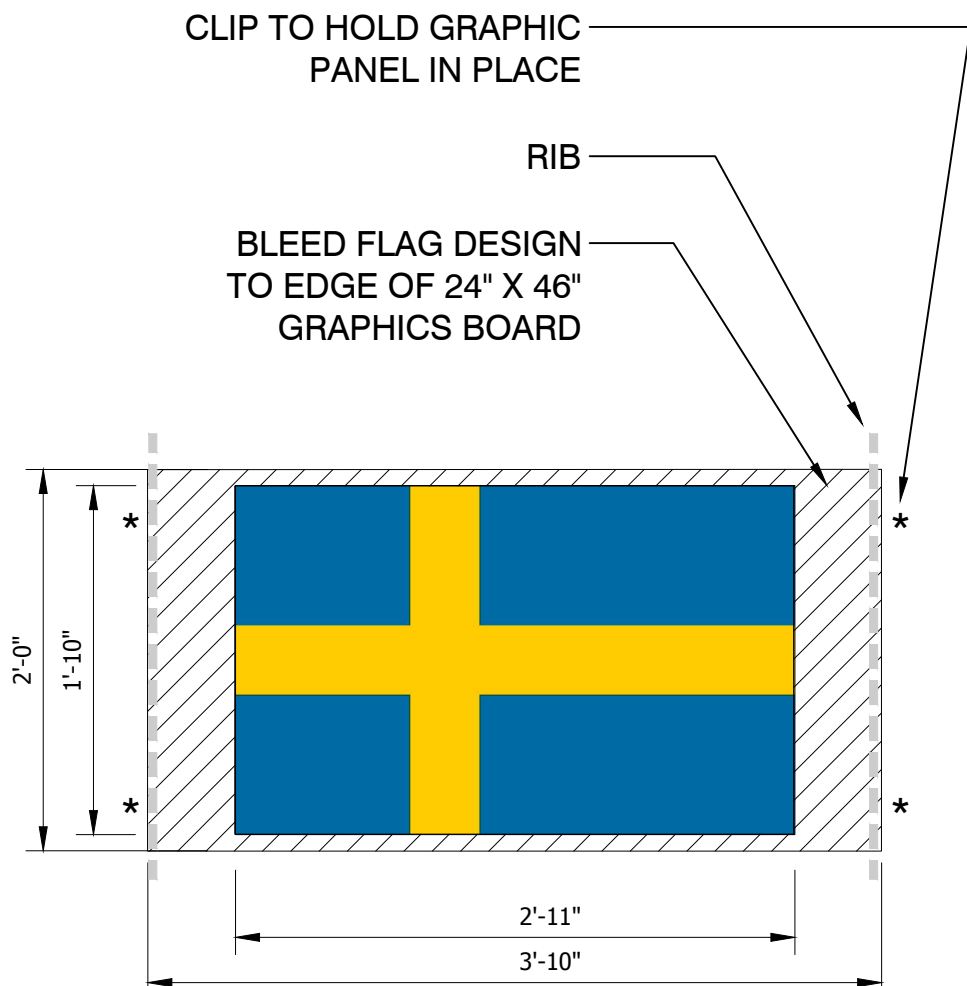
P-PR-ASH-107



6 ARCH SECTION AT GRAPHIC PANELS

1" = 1'-0"

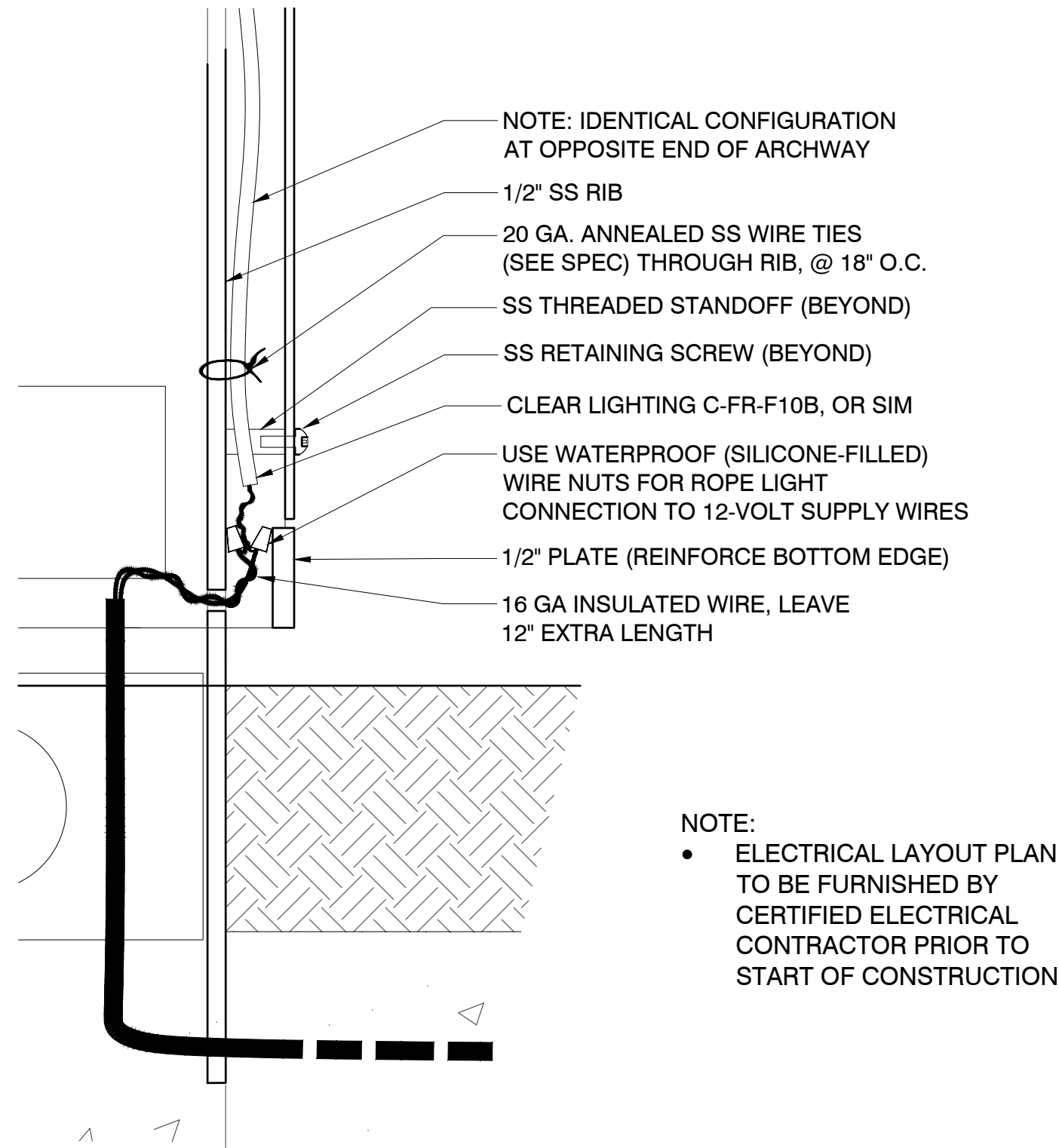
P-PR-ASH-109



7 FLAG GRAPHIC

1" = 1'-0"

P-PR-ASH-110



8 ARCH ELECTRICAL CONNECTIONS

3" = 1'-0"

P-PR-ASH-112

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

HARDSCAPE DETAILS

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: L5.06
SHEET NO: 33 OF 49



NOTES:

1. DIM. TO BE CONFIRMED ONCE STONE IS SELECTED
2. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY ASHA & LANDSCAPE ARCHITECT

WIDTH WILL VARY: 4' MIN. - 8' MAX.

HEIGHT WILL VARY: 5' MIN. - 6' MAX.

ENGRAVED FACE OF RUNE STONE

2' MIN. - 4' MAX.

5' MIN. - 6' MAX.

SIDE

GRANITE SLAB MIN. 12" THICK

THERMAL FINISH

ENGRAVED LINE WORK FILLED WITH COLOR (PAINT)

6" MIN.

3" MIN.

2" MIN.

6" MIN.

ASTORIA SCANDINAVIAN HERITAGE PARK

SEE STRUCTURAL DETAIL 2 /S4.0

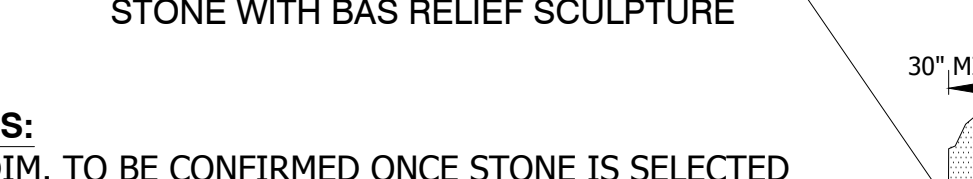
MIN. 8" PLANTING SOIL COVER

FRONT ELEVATION

FLAT FACE OF UPRIGHT GRANITE
STONE WITH BAS RELIEF SCULPTURE

NOTES:

1. DIM. TO BE CONFIRMED ONCE STONE IS SELECTED
2. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY ASHA & LANDSCAPE ARCHITECT
3. SIZES OF STONE SLABS VARY: 30-36" WIDE, 30-54" TALL, 22-30" DEEP
4. BAS RELIEF SCULPTURE TO DEPICT IMAGES OF PROFESSIONS OF EARLY SCANDINAVIAN SETTLERS PER ASHA



30" MIN. - 42" MAX.

30" MIN. - 42" MAX.

SIDE

WIDTH WILL VARY: 30" MIN. - 42" MAX.

HT. WILL VARY: 36"-48" MAX.

UPRIGHT GRANITE STONE

BAS RELIEF SCULPTURE EMERGES FROM FLATTENED FACE

6" MIN.

SEE STRUCTURAL DETAIL 2 / S4.0

FINISH GRADE

FRONT ELEVATION

NOTES:

1. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY ASHA & LANDSCAPE ARCHITECT.
2. STONE FACE TO BE ROUGH HEWN

48"

24"

3" MIN.

ICELAND

ENGRAVED LINE WORK FILLED WITH COLOR (PAINT)

GRANITE PILLAR

COUNTRY NAME & FLAG ENGRAVED MATCH ASHP LOGO FONT

SEE STRUCTURAL DETAIL 3 / S4.0

FINISH GRADE

BACK & SIDES

FRONT ELEVATION

SIDE

- 1/4" SS DONOR PLAQUE: 1/2" TEXT ETCHED, AFIX W/ TAMPER RESISTANT SCREWS
- 1/4" SS LETTERING MATTE FINISH MOUNTED ON SLAB
- FINISH GRADE
- 2" MIN. TYP.
- 1'-0"
- 1"

FRONT ELEVATION

- 5" TALL 1/4" SS LETTERING & DESIGN ELEMENTS, MATCH ASHP LOGO & FONT
- 12' X 4' X 1" GRANITE SLAB
- SMOOTH FINISH
- SS WAVES AND ARCH
- THERMAL FINISH
- FINISH GRADE
- SEE STRUCTURAL DETAIL 2 / S4.0
- 2" MIN.
- 1'-2"
- 6.5" MAX.
- 4"
- 6" MAX.
- 1'-2" MIN.

NOTES

NOTES:

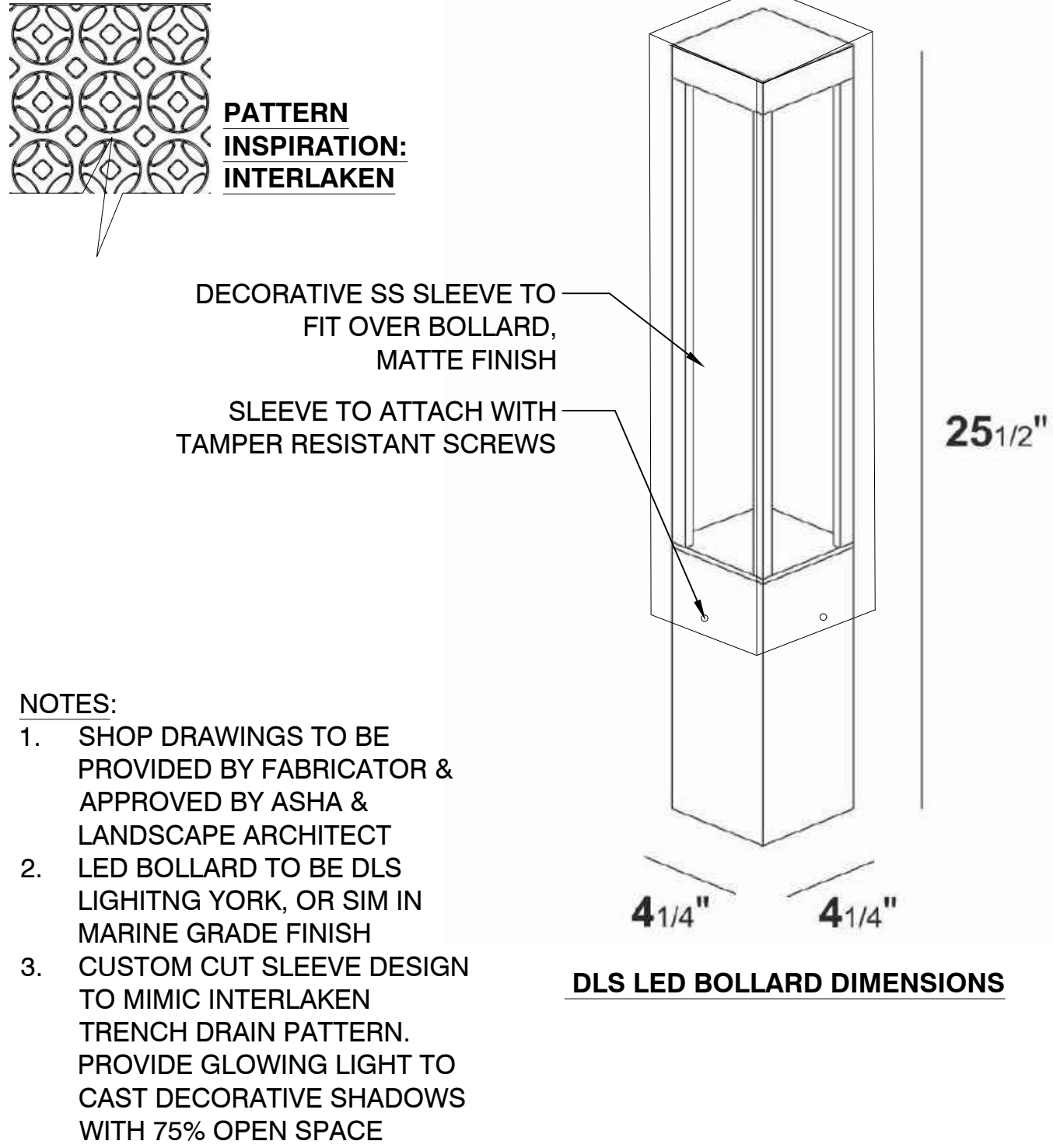
1. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY ASHA & LANDSCAPE ARCHITECT.
2. PRE-CAST TRUNKS TO BE FIELD LOCATED AND LOCATIONS APPROVED BY ASHA & LANDSCAPE ARCHITECT.
3. EACH TRUNK TO BE COMFORTABLE TO SIT ON FOR PEOPLE OF DIFFERENT AGES.
4. GENERAL TRUNK DIMENSIONS:
 - 17" - 24" TALL
 - 18" - 30" WIDE
 - 14" - 30" DEEP
5. SOME TRUNKS TO HAVE ARCHED TOPS.
6. ALL TO DRAIN PROPERLY.
7. USE SS FOR ALL REINFORCING AND HARDWARE.

NOTE:

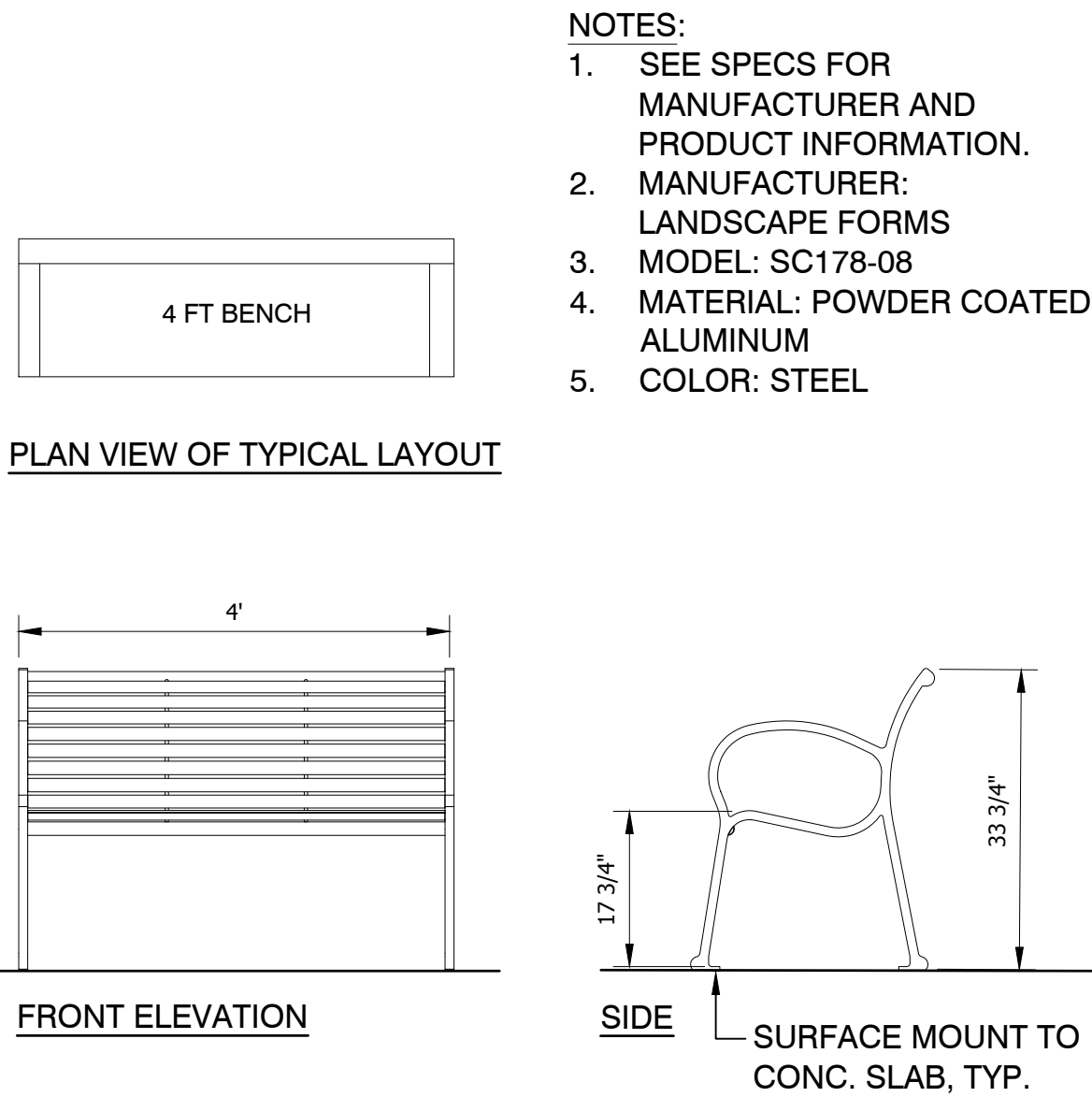
1. 6 UNIQUE PRE-CAST CONCRETE TROLL STATUES
2. SHOP DRAWINGS TO BE PROVIDED BY FABRICATOR & APPROVED BY ASHA.
3. USE SS FOR ALL REINFORCING AND HARDWARE.

The diagram illustrates the installation of a troll statue. At the top, a 3D rendering of a troll statue is shown with a line pointing to the text: "CAST CONCRETE TROLL WITH INTEGRAL COLOR AND STAINS". Below this, a cross-sectional diagram shows the statue's base. A horizontal line represents the "FINISH GRADE". The statue's base is labeled "24\" TALL TROLL (6 TOTAL)". Below the finish grade, the base is embedded in a "18\" x 18\" REINFORCED CONCRETE FOOTING, ~280 LBS". A "MIN. 8\" PLANTING SOIL COVER" is indicated below the footing. The footing is shown with internal reinforcement. A vertical dimension line on the left indicates a height of "2'-0\" MAX" from the footing to the top of the statue. Another vertical dimension line on the left indicates a height of "8\"" from the footing to the finish grade. A line points to the footing with the text: "SEE STRUCTURAL DETAIL 2 / S.40".

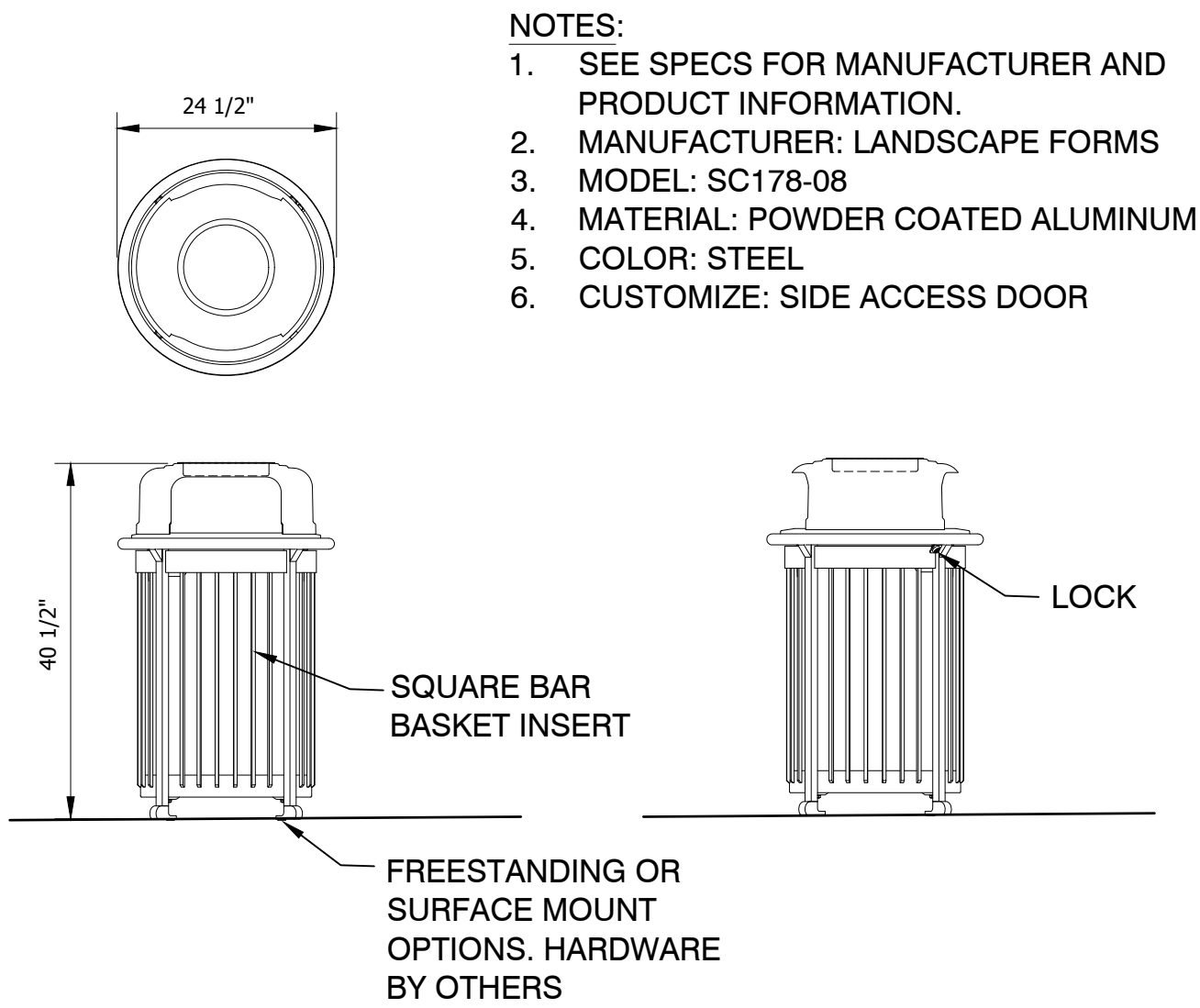
ORIGINATED BY: / DATE: /
CHECKED BY: / DATE: /
BACK-CHECKED BY: / DATE: /
10/4/2018 7:49 PM



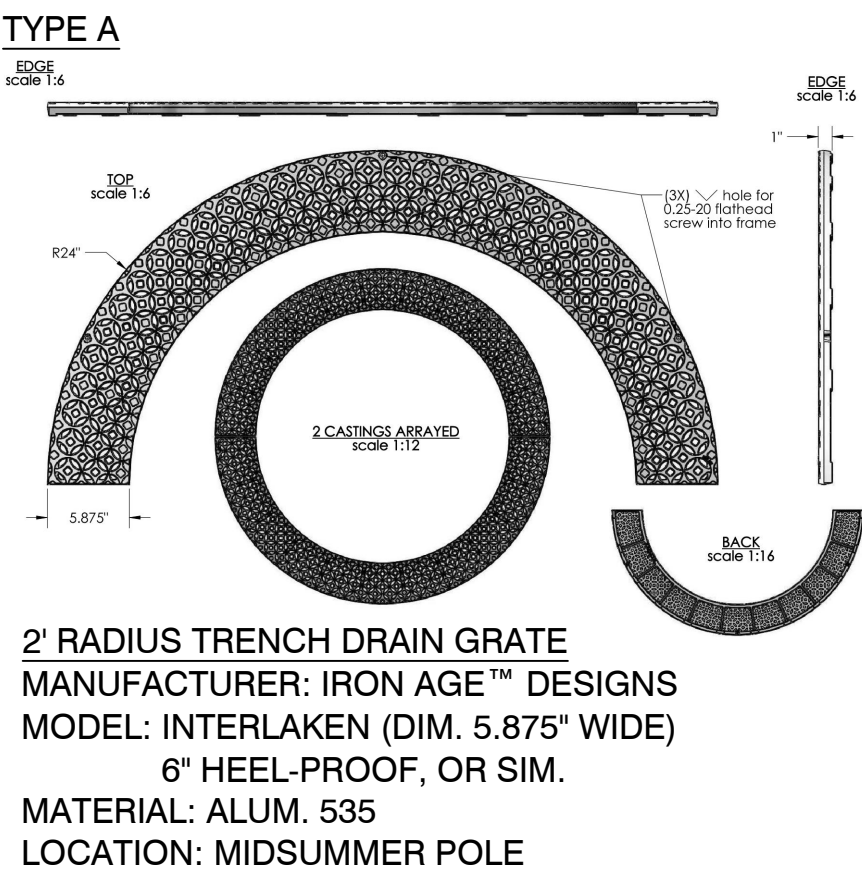
1 CUSTOM LED BOLLARD SLEEVE
NTS
P-PR-ASH-127



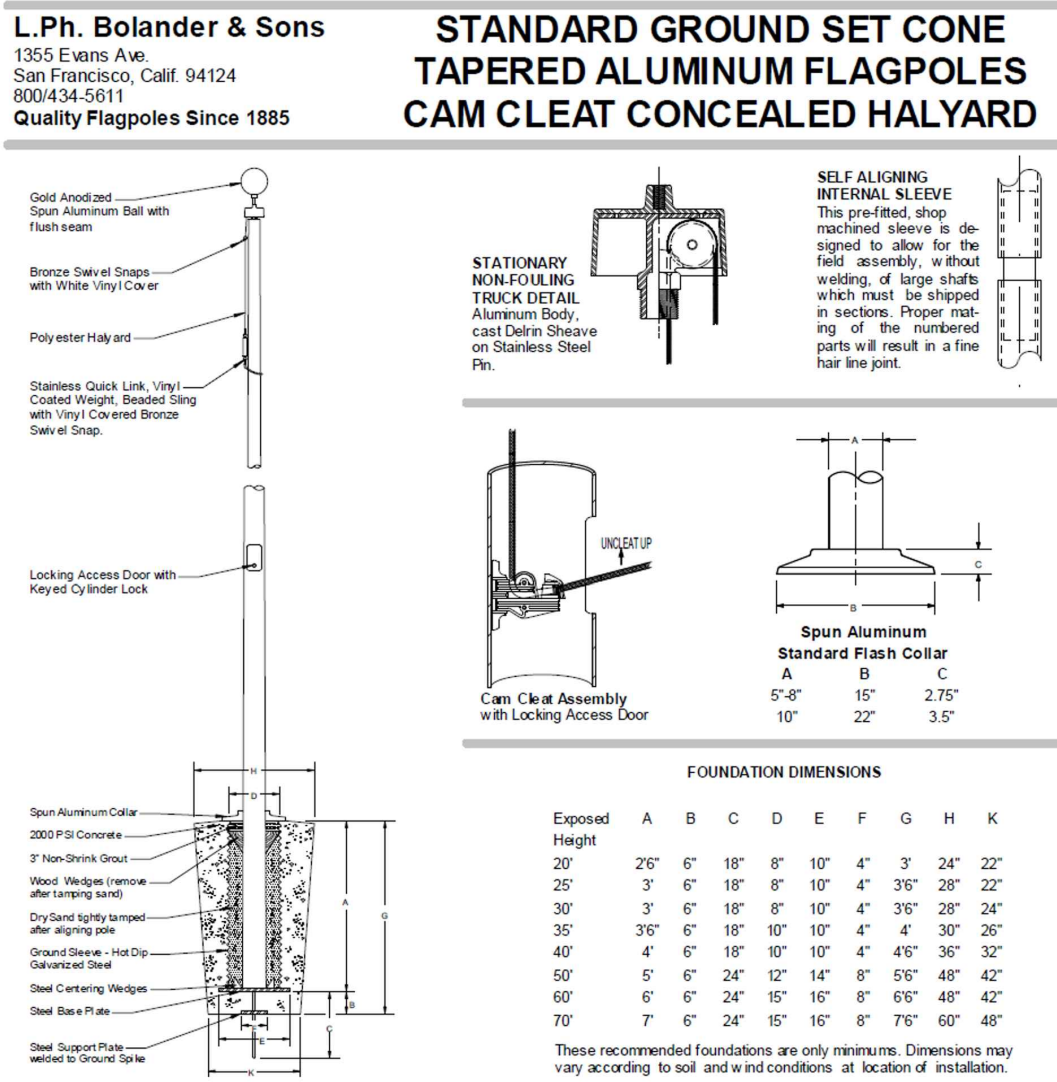
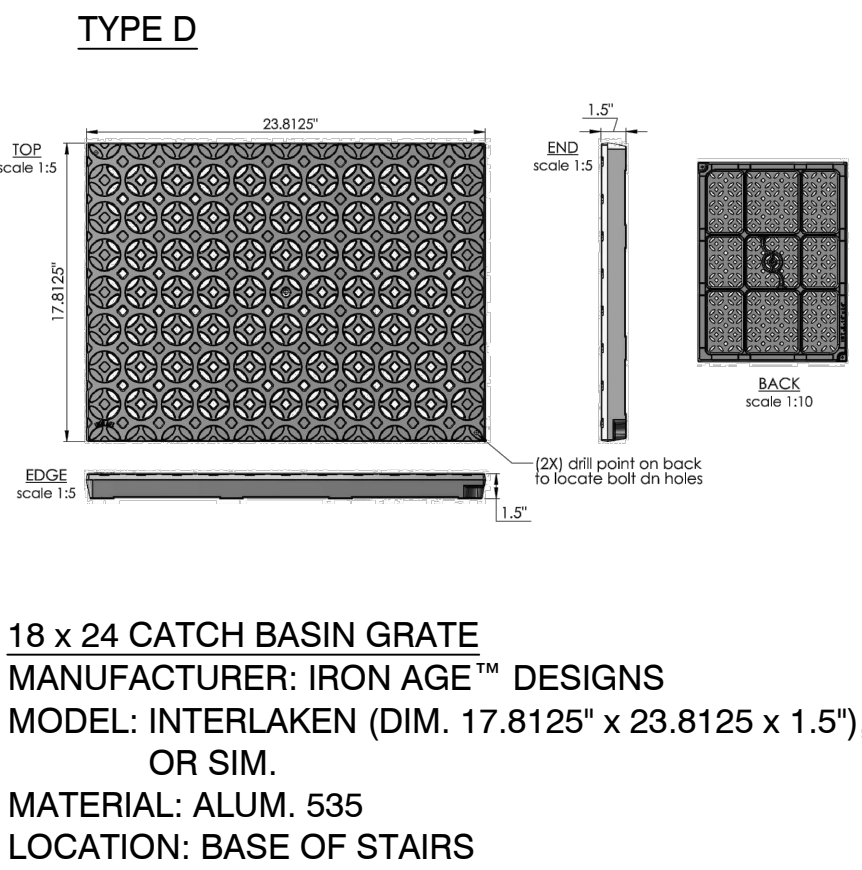
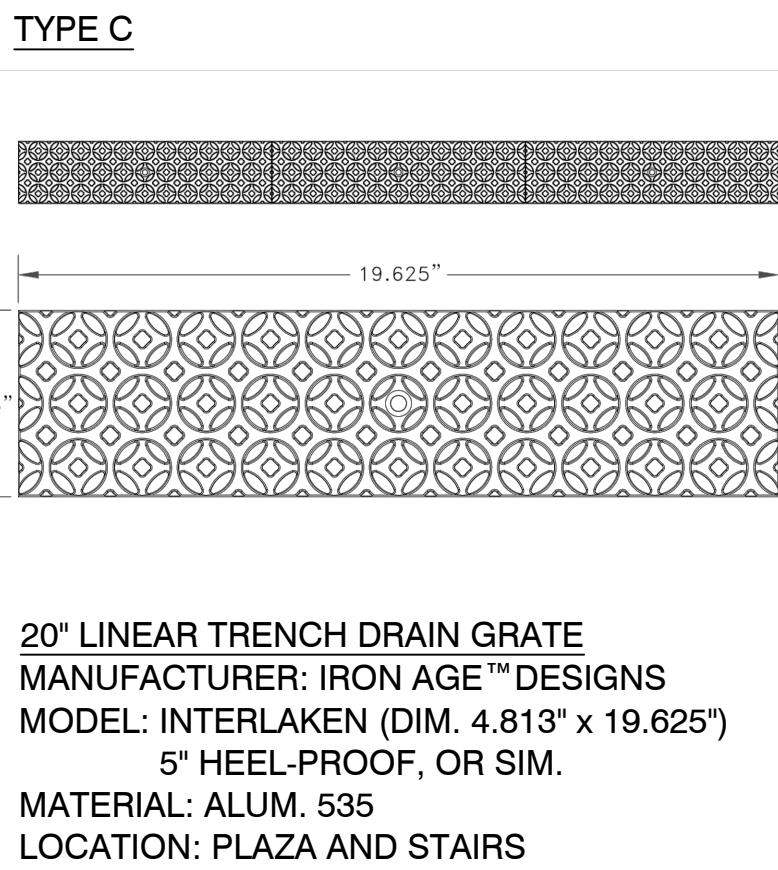
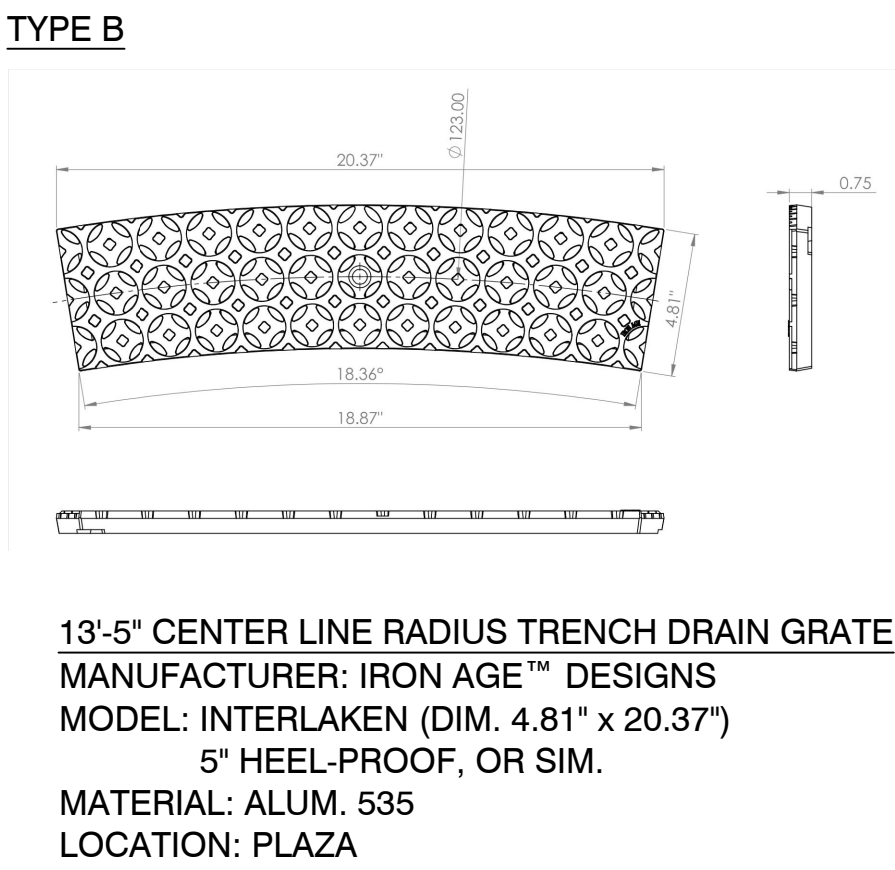
2 4 FT PARK BENCH
NTS
P-PR-ASH-55



3 TRASH & RECYCLING BIN
NTS
P-PR-ASH-56



4 TRENCH DRAIN & CATCH BASIN COVERS
3" = 1'-0"



NOTES:

- RATED FOR 135 MPH WINDS & SEISMIC CATEGORY D.
- 20' BRUSHED ALUM. POLE W/ LOCKING ACCESS DOOR.
- FOOTING DESIGN PER MANUFACTURER.
- OWNER TO PROVIDE:
 - BOLANDER AND SONS FLAGPOLE, OR SIM,
 - 3X5 FLAG OR SMALLER (USA, SWEDEN, DENMARK, FINLAND, ICELAND, NORWAY, & SWEDEN)

5 20' FLAGPOLE & FOOTING
1/2" = 1'-0"

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST

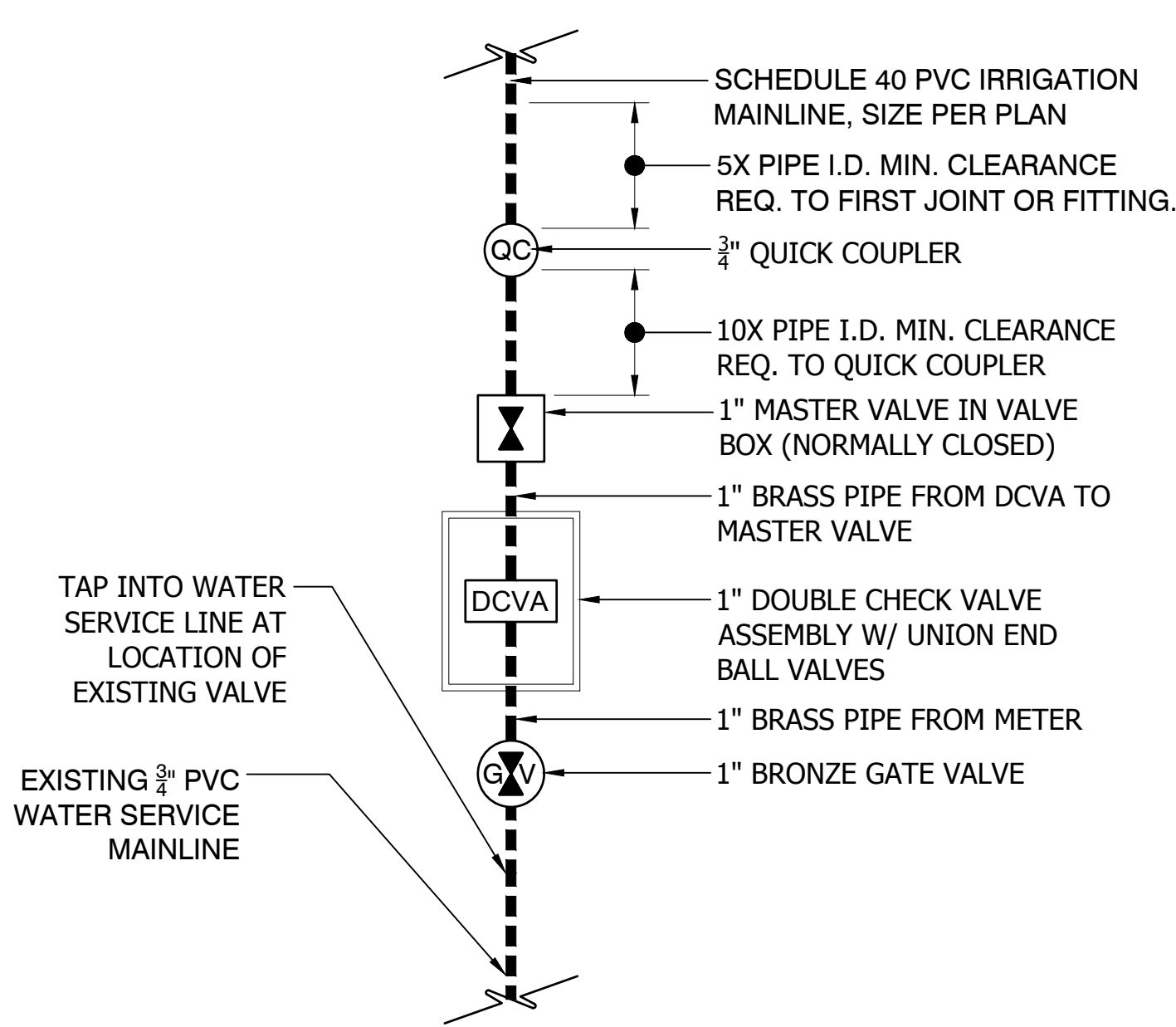


PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
HARDSCAPE DETAILS

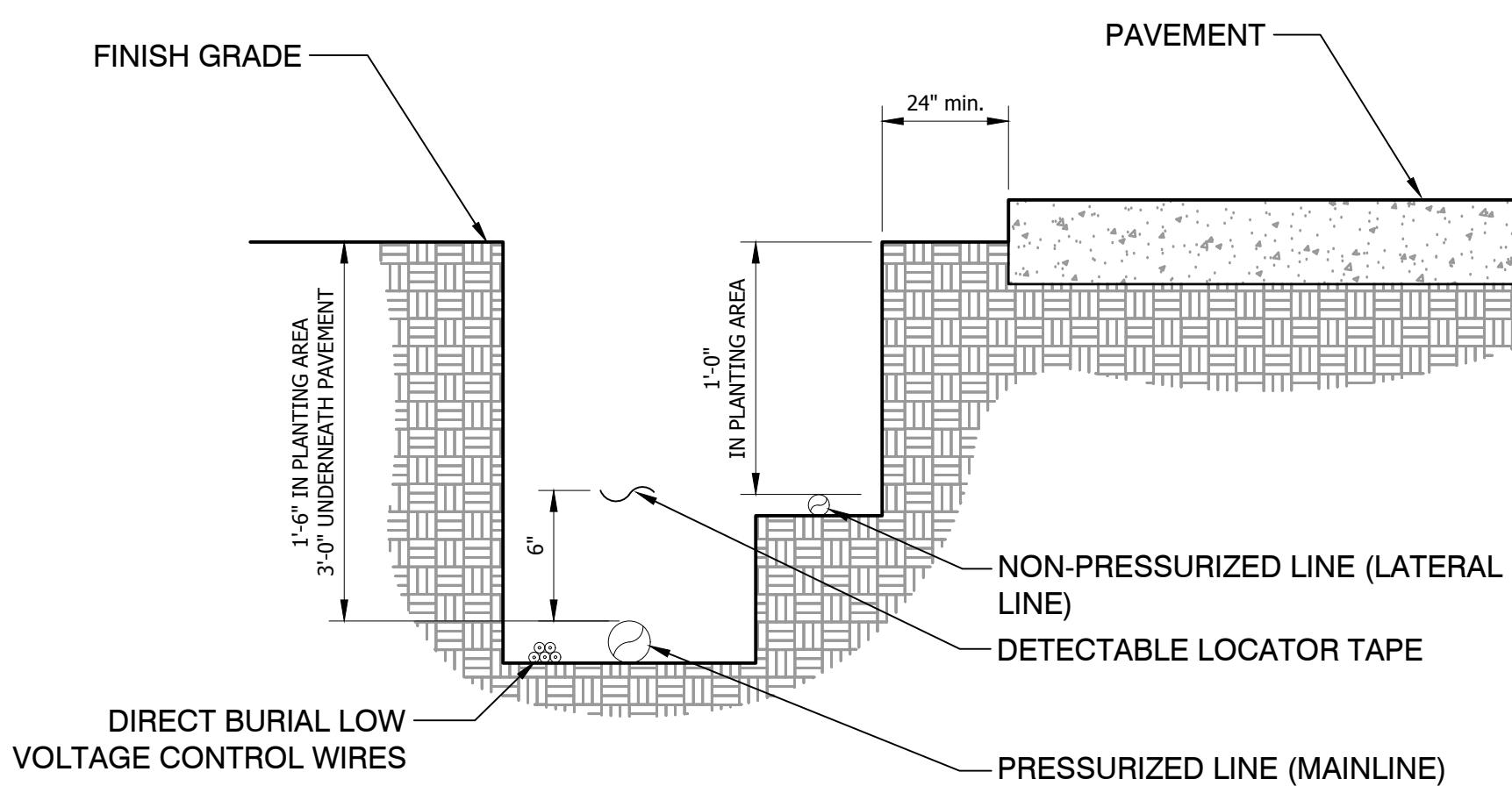
SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: L5.08
SHEET NO: 35 OF 49



1 POINT OF CONNECTION DIAGRAM

1/8" = 1'-0"

P-PR-ASH-01



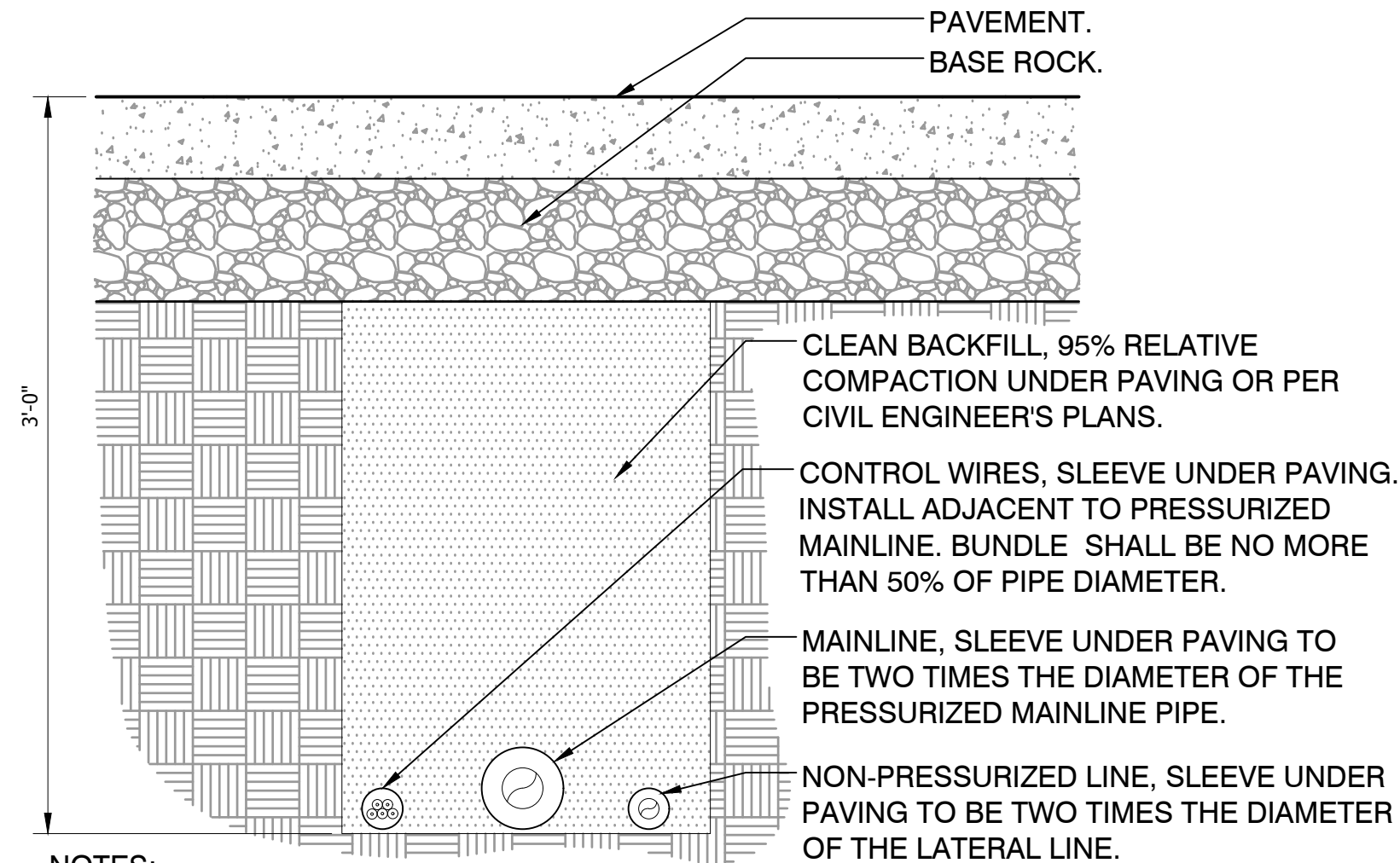
NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
2. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
3. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

2 IRRIGATION TRENCHING

1 1/2" = 1'-0"

P-PR-ASH-40



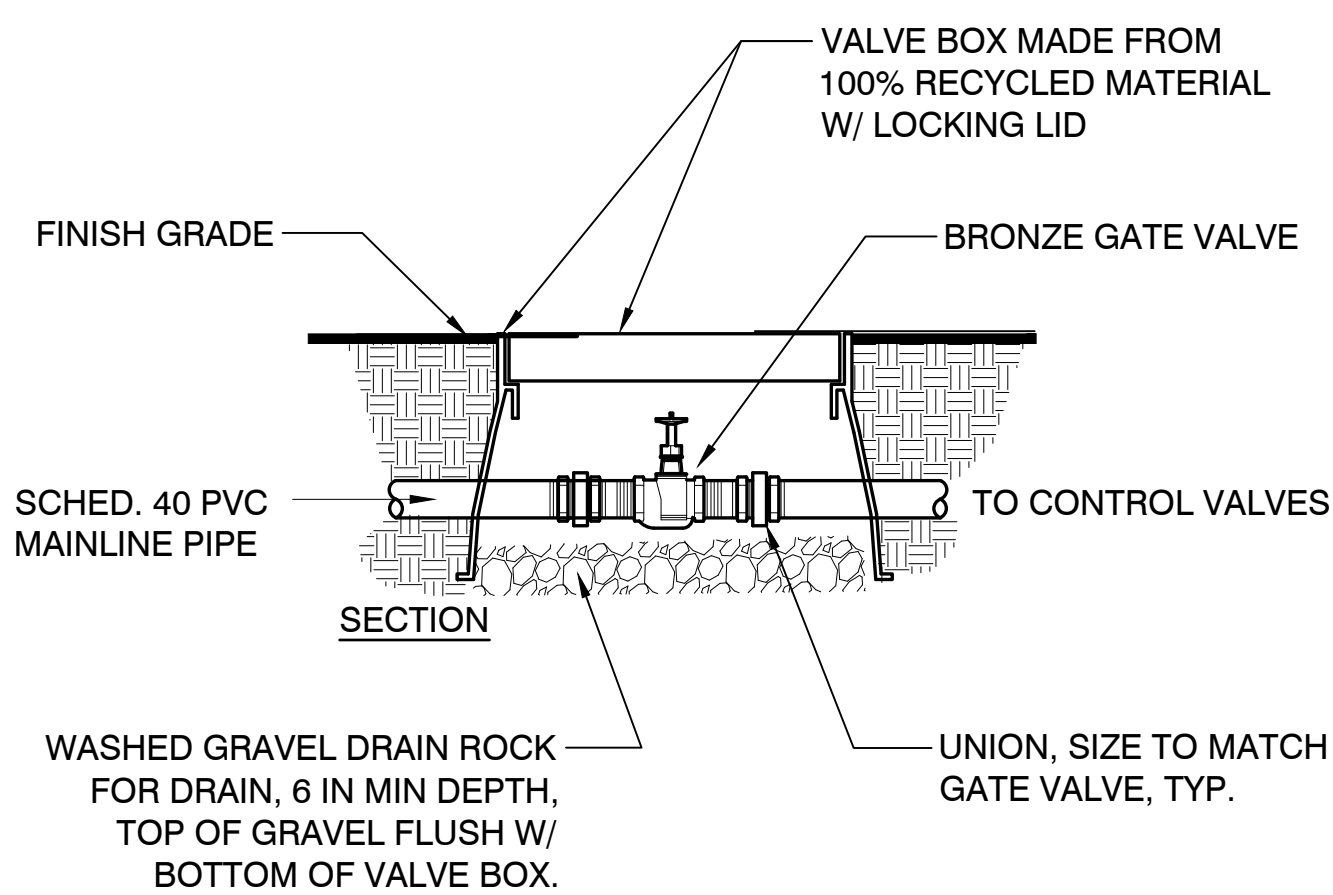
NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

3 PIPE BENEATH PAVEMENT

1 1/2" = 1'-0"

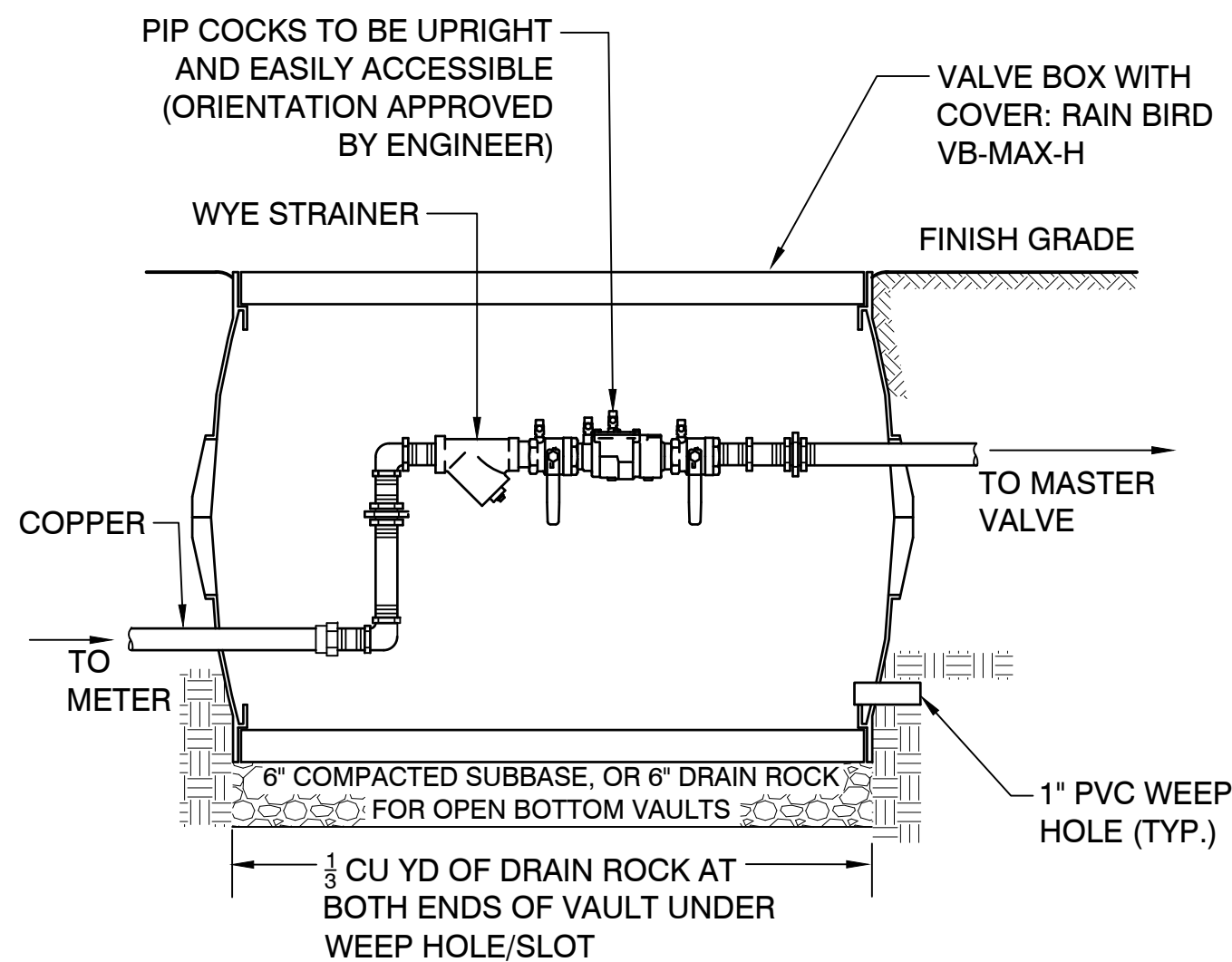
P-PR-ASH-41



4 GATE VALVE

1" = 1"

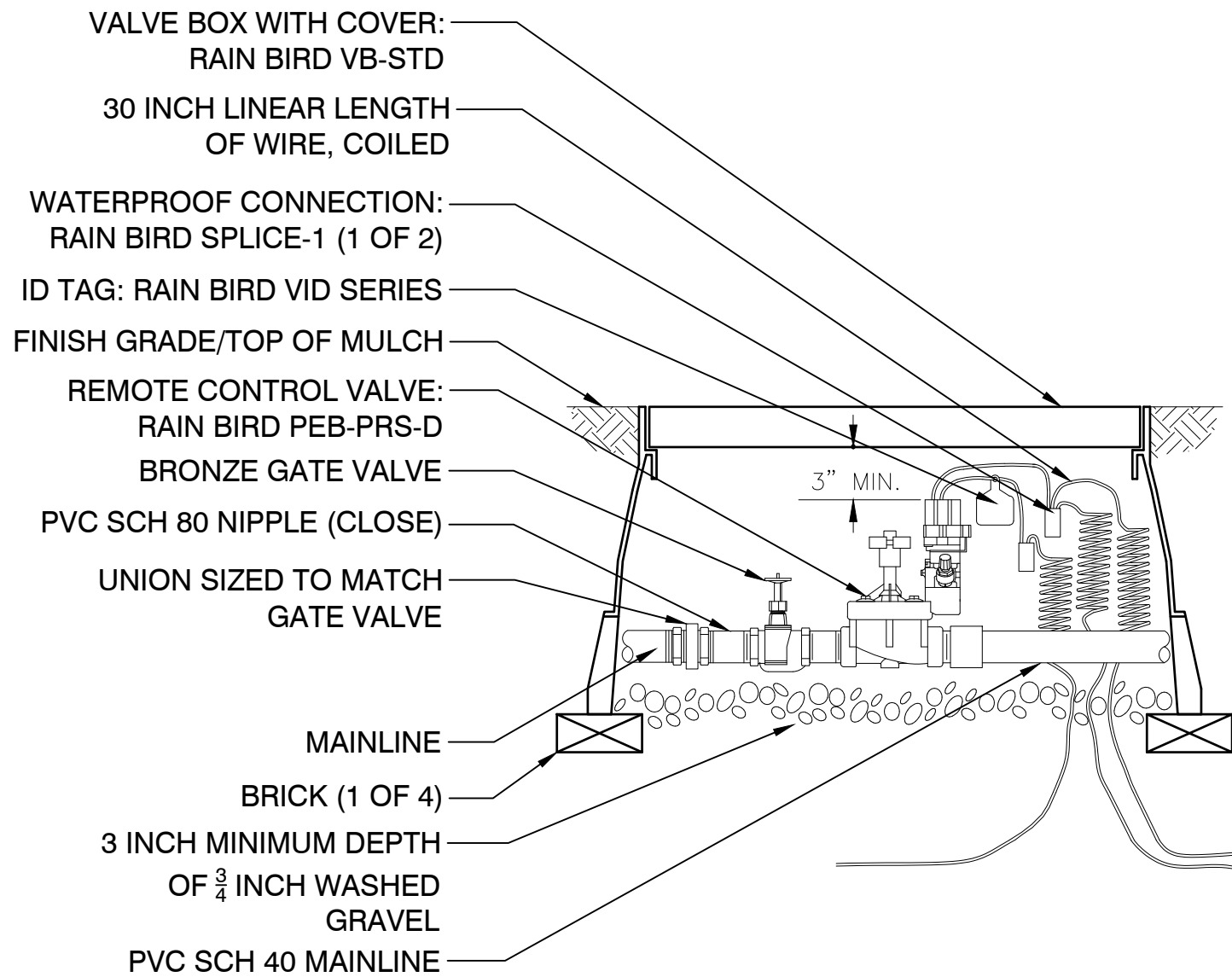
P-PR-ASH-43



5 DOUBLE CHECK VALVE ASSEMBLY

NTS

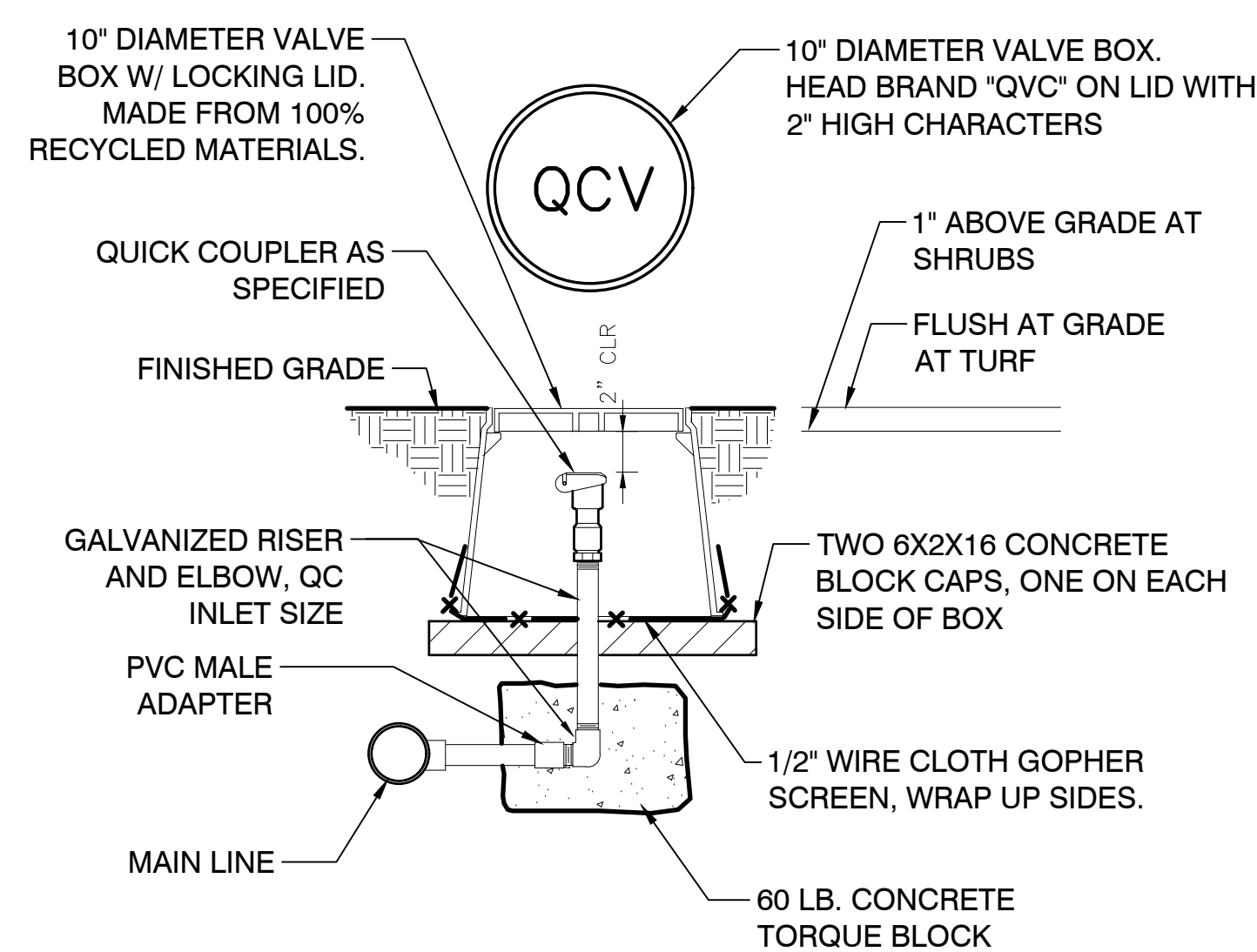
P-PR-ASH-33



6 MASTER CONTROL VALVE WITH GATE VALVE

1" = 1"

P-PR-ASH-160



7 QUICK COUPLER VALVE IN BOX

1 1/2" = 1'-0"

P-PR-ASH-42

DRAWING ISSUE			DATE	
100% ENGINEERED PLANS			02/01/2019	
No.	REVISION		DATE	
NOT FOR CONSTRUCTION				

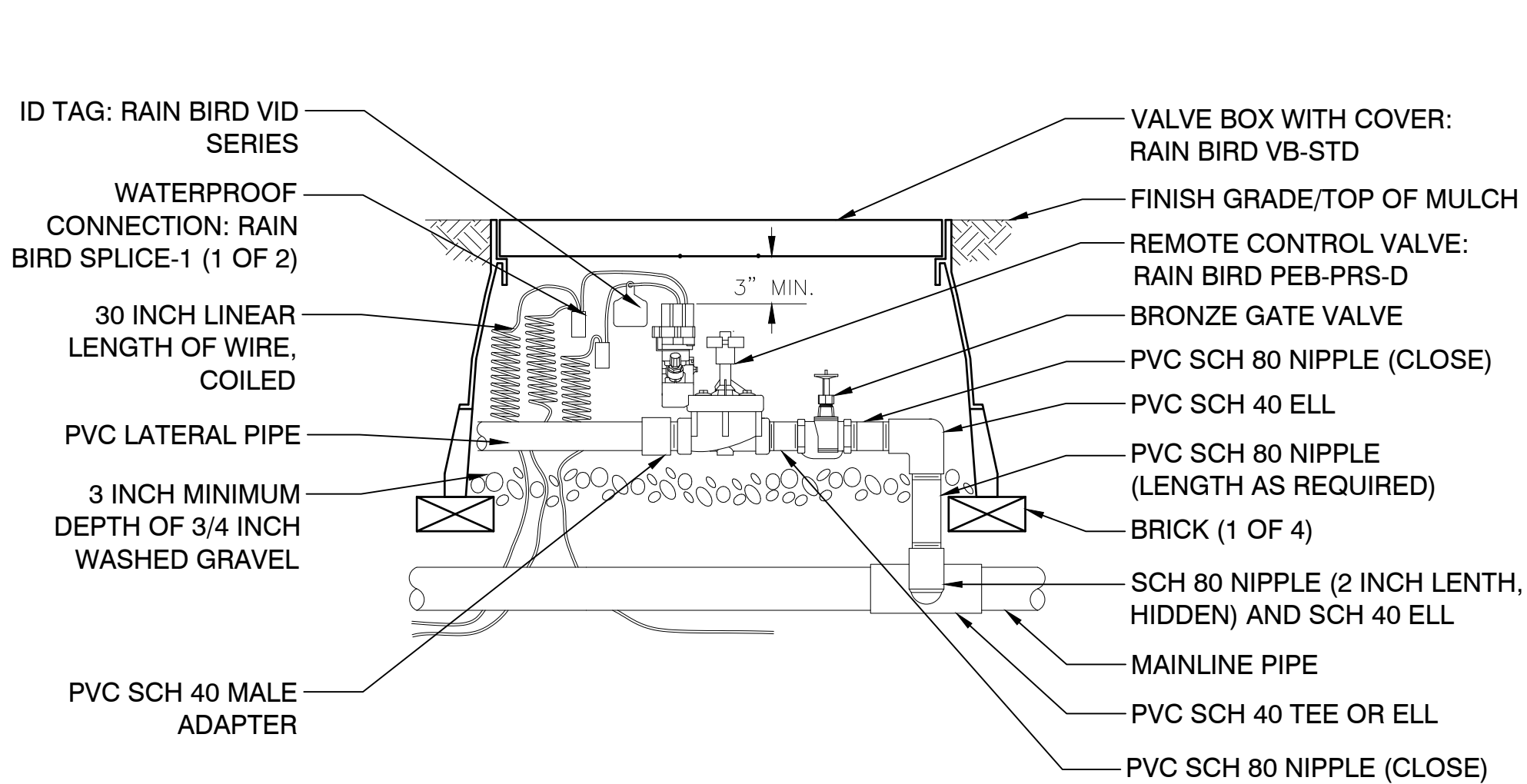


DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST

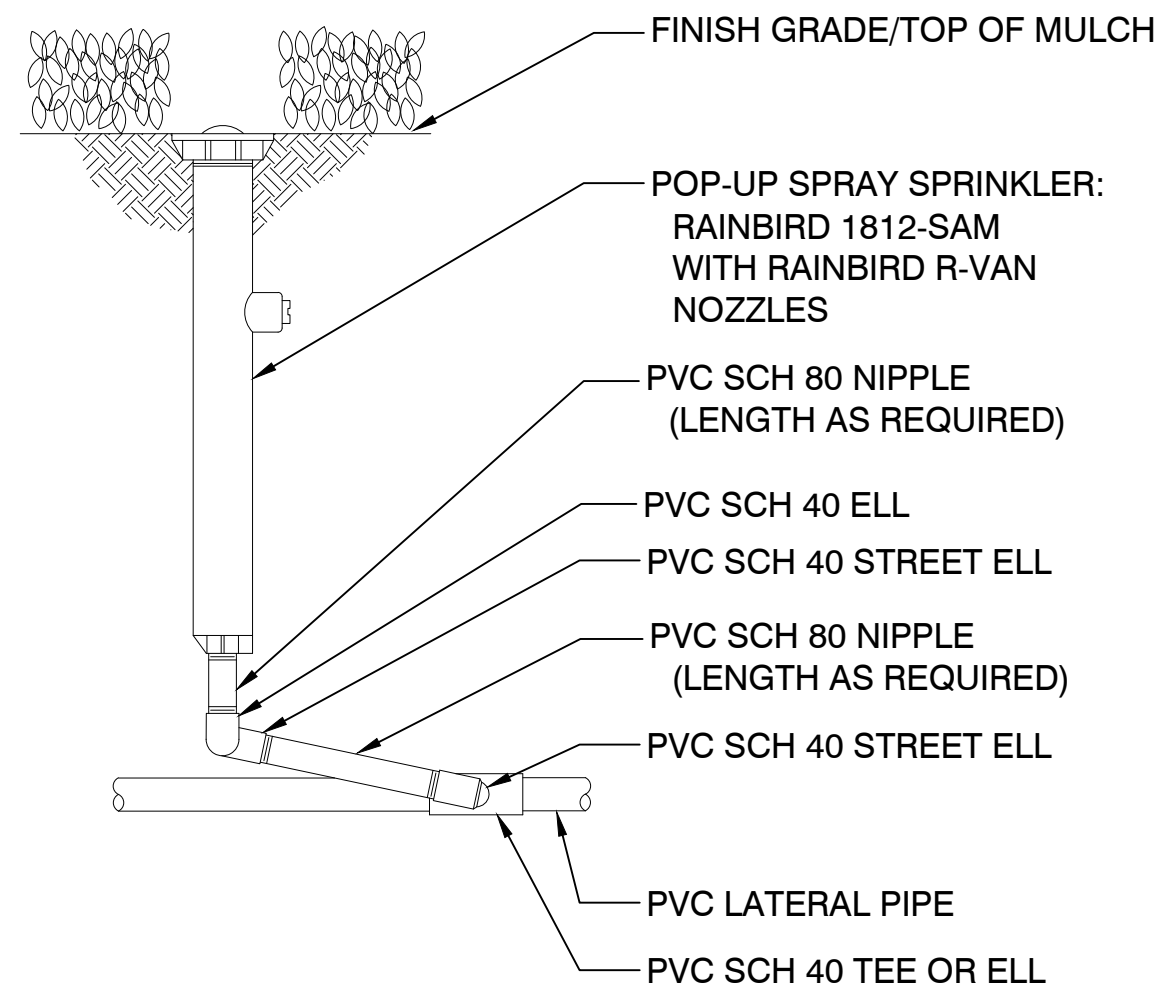


PROJECT LOCATION: 16TH AND MARINE DRIVE ASTORIA, OREGON 97103
CLIENT: ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION PO BOX 34 ASTORIA, OREGON 97103

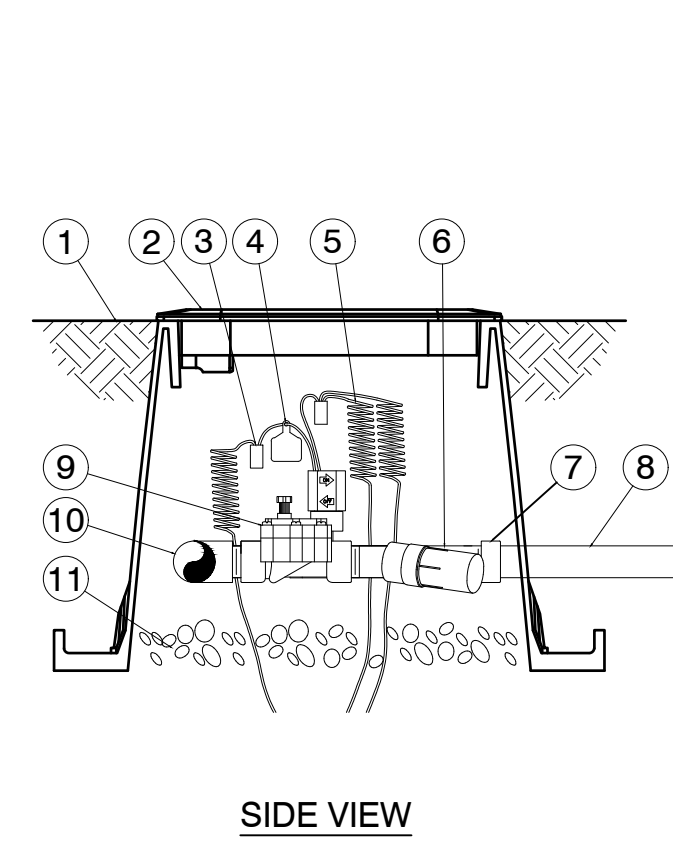
ASTORIA SCANDINAVIAN HERITAGE PARK IRRIGATION DETAILS	
SCALE: AS SHOWN	PROJECT NO: 18002
DRAWING NO: L5.10	SHEET NO: 36 OF 49



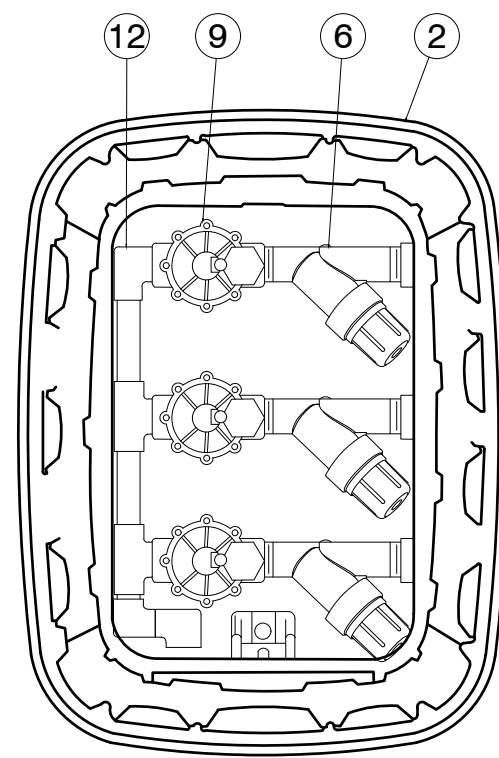
1 ELECTRIC REMOTE CONTROL VALVE AND GATE VALVE
1" = 1"
P-PR-ASH-159



2 1812 POP-UP SPRAY WITH R-VAN NOZZLE
3/4" = 1'-0"
P-PR-ASH-22

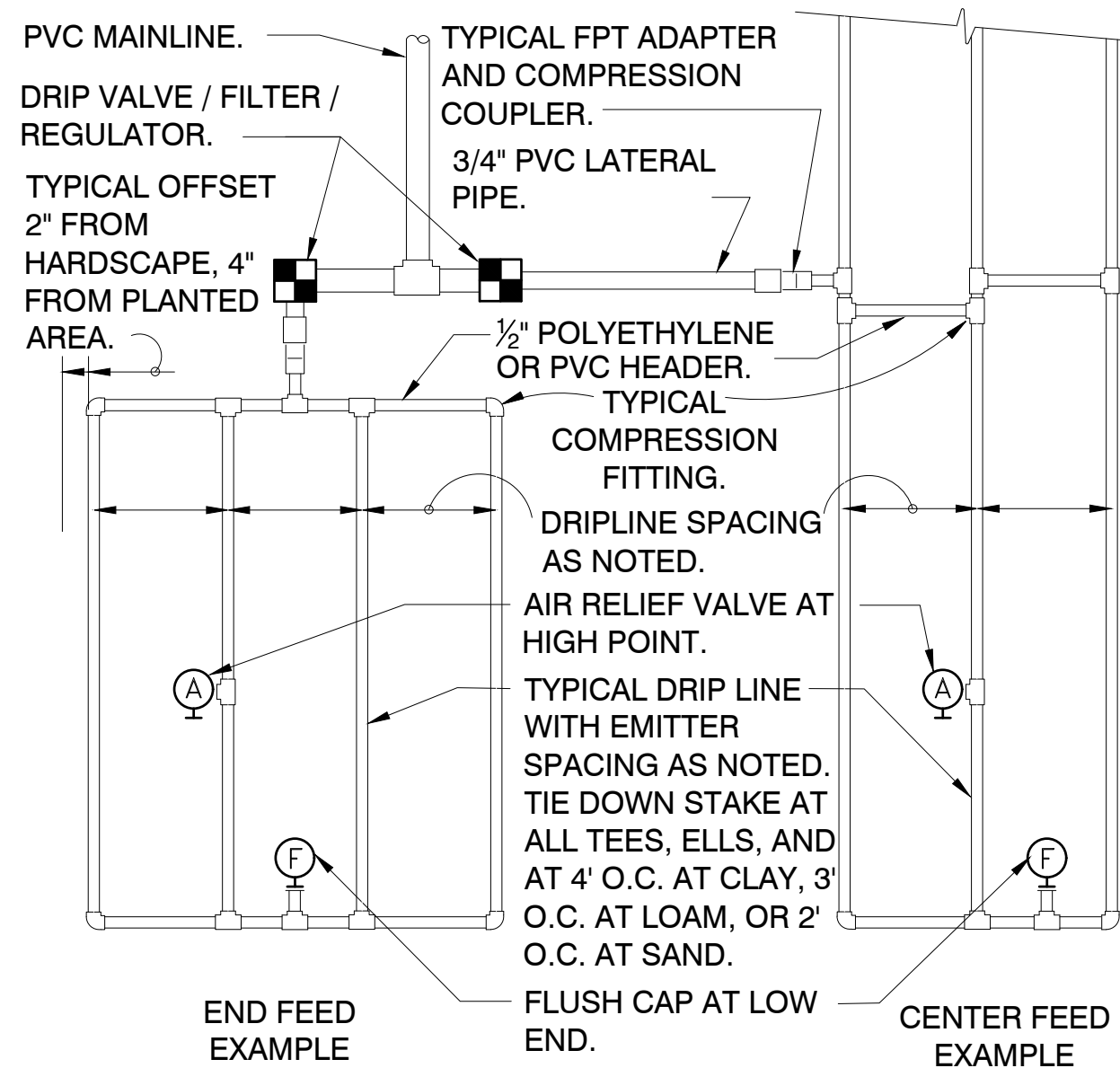


- NOTE: INSTALL W/ GATE VALVE PER CITY OF ASTORIA RECOMMENDATIONS.
- 1 FINISH GRADE
2 STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STDH
3 WATERPROOF CONNECTION: RAIN BIRD DB SERIES
4 VALVE ID TAG
5 30-INCH LINEAR LENGTH OF WIRE, COILED
6 PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-100-PRF KIT)
7 PVC SCH 40 FEMALE ADAPTOR
8 LATERAL PIPE
9 REMOTE CONTROL VALVE: RAIN BIRD 100-DV (INCLUDED IN XCZ-100-PRF KIT)
10 PVC SCH 40 TEE OR ELL TO MANIFOLD
11 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
12 MANIFOLD PIPE AND FITTINGS



TOP VIEW

3 REMOTE CONTROL VALVE: DRIP SYSTEM
3/4" = 1'-0"
P-PR-SVC-46



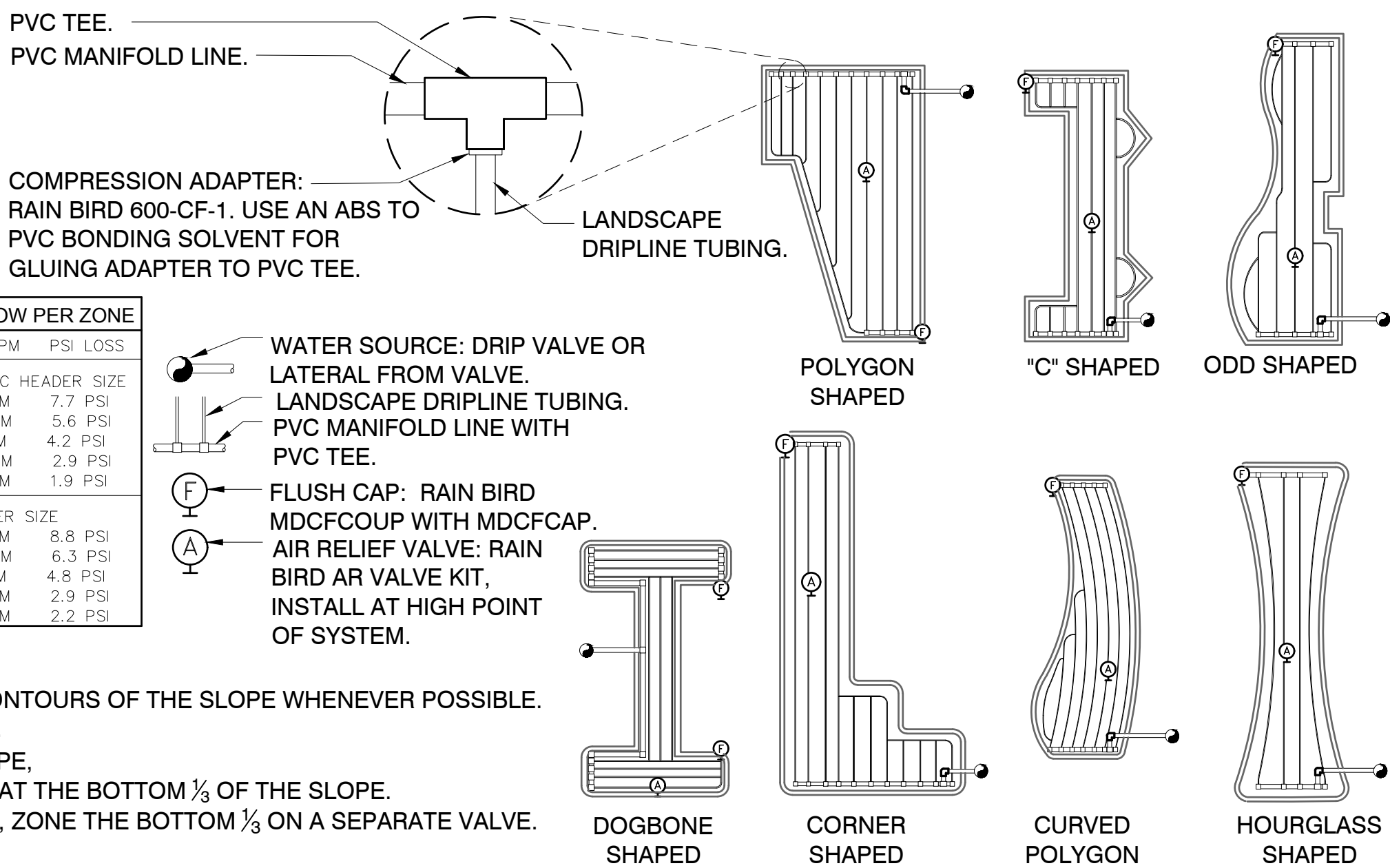
4 TYPICAL RAIN BIRD DRIPLINE LAYOUT AND REQUIREMENTS
3" = 1'-0"

MAXIMUM LATERAL LENGTH (FEET)						
EMITTER FLOW RATE GPH						
PSI	12" SPACING		18" SPACING		24" SPACING	
	0.6	0.9	0.6	0.9	0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	271	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	471
50	125	96	175	135	218	171
60	125	96	175	135	218	171

GRID PRECIPITATION RATES (IN/HR)			
EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	
		0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

- SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
 2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
 3. NORMAL SPACING WITHIN THE TOP 2/3 OF SLOPE,
 4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 OF THE SLOPE.
 5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.



P-PR-ASH-23

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DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
IRRIGATION DETAILS

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: L5.11
SHEET NO: 37 OF 49

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DESIGNED: A. WEST	DRAWN: N. PRICE
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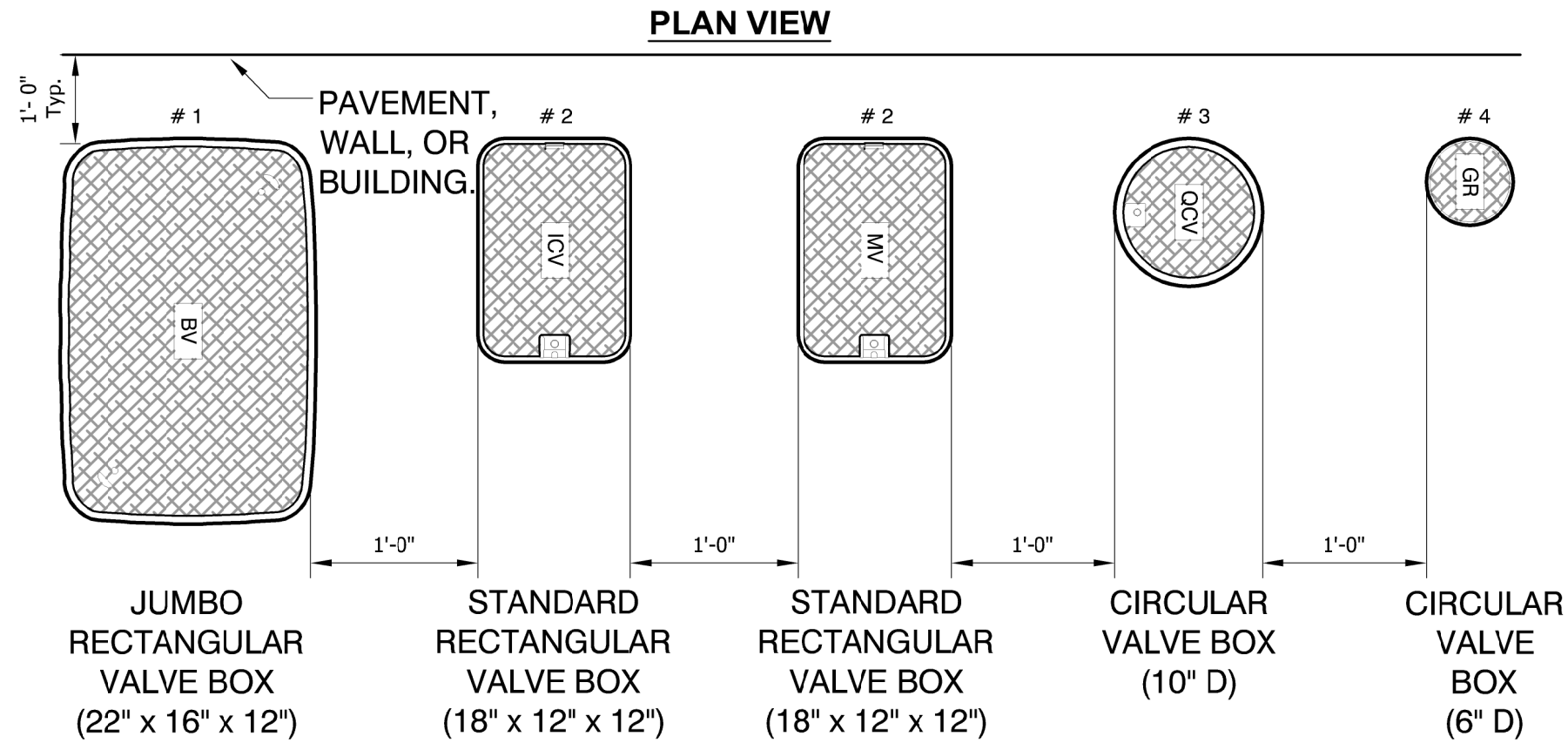


PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
IRRIGATION DETAILS

SCALE: AS SHOWN
PROJECT NO: 18002
DRAWING NO: L5.12
SHEET NO: 38 OF 49



NOTES:

1. VALVE BOX # 1 THRU # 3 SHALL HAVE STAINLESS STEEL LOCKING HARDWARE.
2. VALVE BOXES SHALL BE LABELED BY HOT IRON BRANDING OR ALUMINUM ASPHALTIC BASE WATER PROOF PAINT.
3. LOCATE VALVE ASSEMBLIES IN PLANTING AREA.
4. VALVE LOCATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
5. VALVE BOXES SHALL BE CENTERED ABOVE VALVE ASSEMBLIES TO FACILITATE ACCESS AND MAINTENANCE.
6. VALVE BOXES SHALL BE FLUSH WITH FINISHED GRADE.
7. VALVE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE EDGE OF PAVEMENT.
8. SEE OTHER IRRIGATION DETAILS FOR FURTHER INFORMATION.

Water Type	Controller	Designation	Box Size	Lid Color	Identification Guide
PW	A	MV	# 2	Green	Master valve
PW	A	FS	# 2	Green	Flow sensor
PW	A	HM	# 2	Green	Hydrometer
PW	A	BV	# 2	Green	Ball valve 3" or less
PW	A	BV	# 1	Green	Ball valve 4" or more
PW	A	GV	# 2	Green	Gate valve
PW	A	ARV	# 2	Green	Air release valve
PW	A	QCV	# 3	Green	Quick coupler valve
PW	A	RCV	# 2	Green	Remote control valve
PW	A	MS	# 2	Green	Moisture sensor
PW	A	GR	# 4	Green	Grounding rod
PW	A	SB	# 3	Green	Splice box
PW	A	FC	# 3	Green	Future connection

EXAMPLE

POTABLE WATER SYSTEM ON
CONTROLLER 'A', REMOTE
CONTROL VALVE STATION # 3.

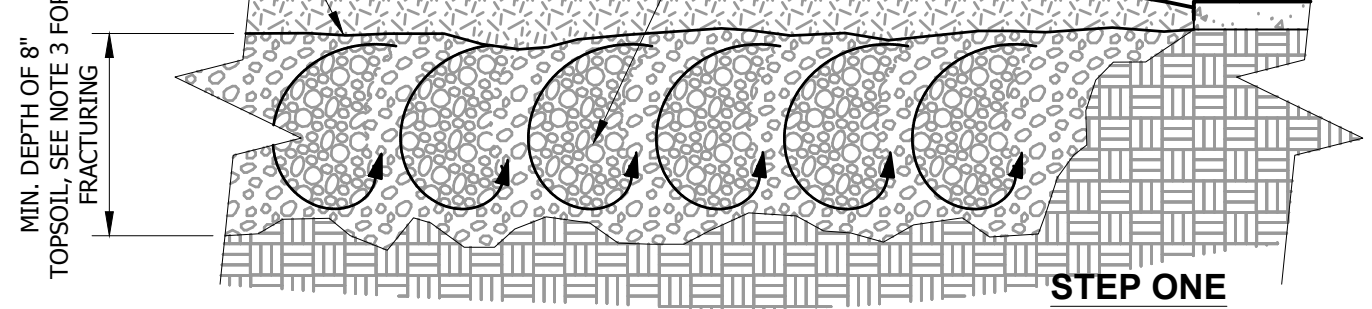
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FX-IR-FX-RCV-03

BEFORE STARTING SOIL FRACTURING APPLY 2 - 3" OF COMPOST OVER EXISTING GRADE.

EXISTING GRADE AFTER ROUGH GRADING.

FRACTURE SOIL USING A BACKHOE. DIG INTO THE SOIL AND THE COMPOST. LIFT THE SOIL AND DROP IN PLACE TO FRACTURE COMPACTION. REPEAT OVER ENTIRE PLANTING AREA.

PAVEMENT. DO NOT FRACTURE SOIL ADJACENT TO PAVEMENT.

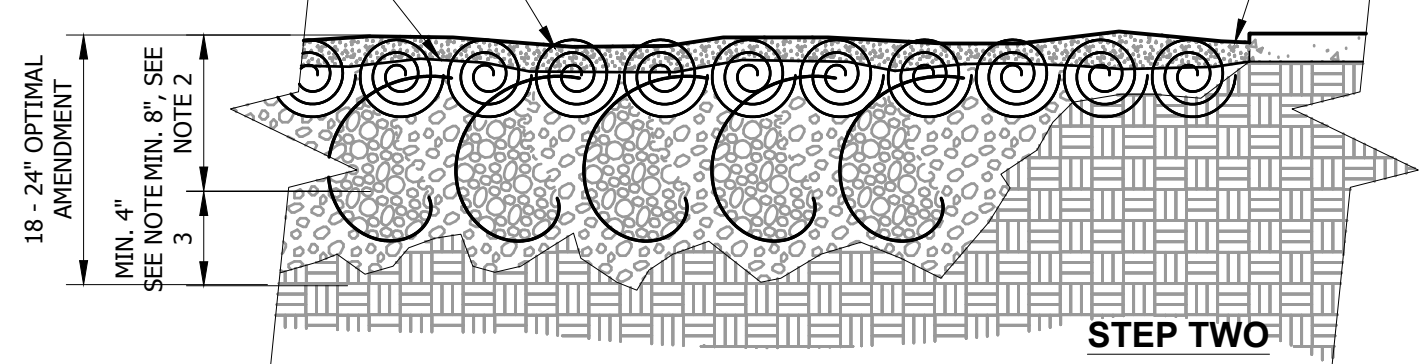


STEP ONE

APPLY 3 - 4" OF COMPOST AND REQUIRED CHEMICAL ADJUSTMENT PER SOIL TESTING, PRIOR TO FINAL TILLING.

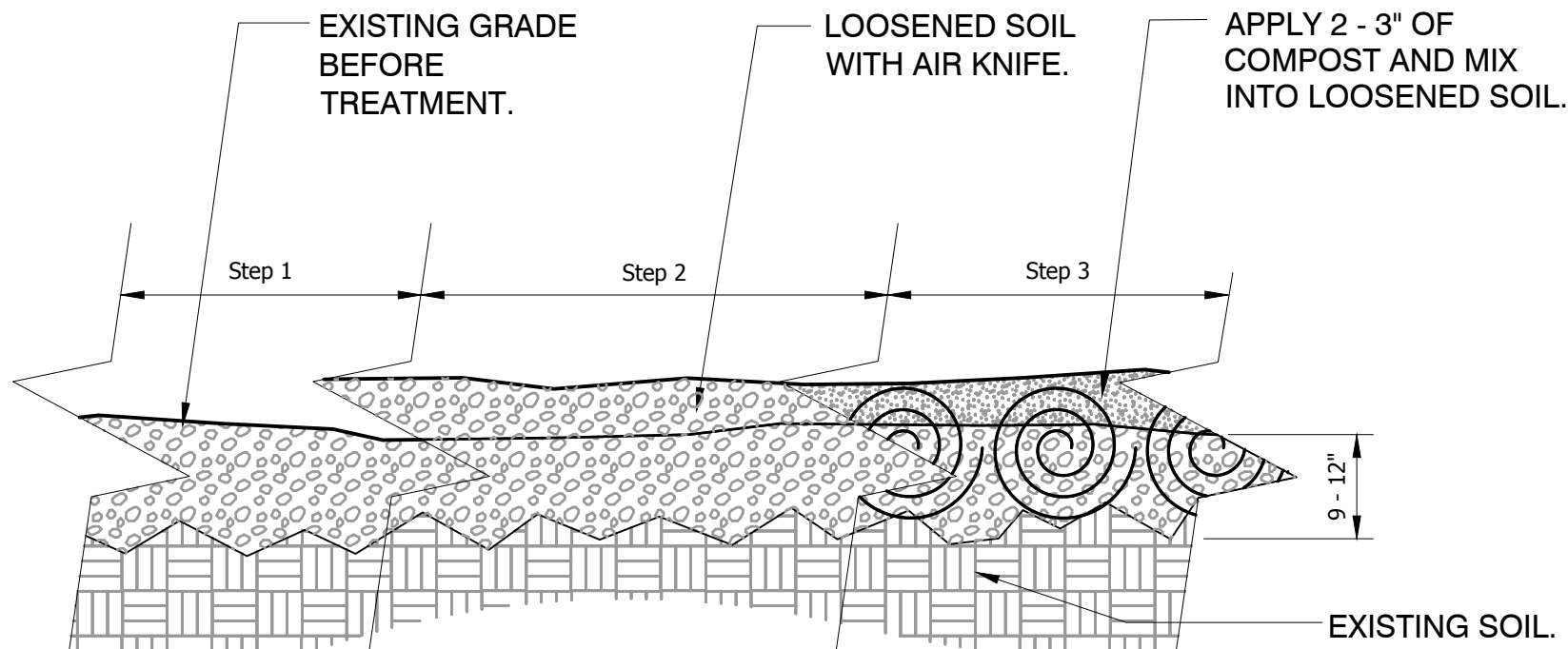
PROPOSED FINISHED GRADE AFTER SETTLING.

FINISH GRADE ADJACENT TO PAVING SHALL BE 1/2" BELOW PAVEMENT SURFACE.



STEP TWO

- NOTES:
- FOR PLANTING AREAS NARROWER THAN 8', REDUCE THE DISTANCE BETWEEN PAVING AND SOIL FRACTURING FROM 2' TO 1'.
 - MIN. 8" TOPSOIL LAYER TO BE MIN ORGANIC MATTER CONTENT OF 10% AND pH FROM 6.0 TO 8.0 OR MATCHING ORIGINAL UNDISTURBED SOIL.
 - SUBSOILS BELOW TOPSOIL LAYER SHOULD BE SCARIFIED TO AT LEAST 4", 12" FOR OPTIMAL DEVELOPMENT, INCORPORATING SOME UPPER MATERIAL TO AVOID STRATIFIED LAYERS WHERE FEASIBLE.
 - PLANTING BEDS TO BE MULCHED WITH A MIN. OF 2" OF ARBORIST WOOD CHIP MULCH, 4" DEPTH IS OPTIMAL FOR REDUCING WEEDS AND WATER USE.



- NOTES:
- STEP 1 - PRIOR TO THE START OF WORK REMOVE ALL THATCH, SOD, AND/OR WEEDS.
- STEP 2 - LOOSEN SOIL WITH AIR KNIFE OR APPROVED EQUAL TO A DEPTH OF 9 - 12" AND WORK AROUND ENCOUNTERED ROOTS.
- STEP 3 - APPLY 2 - 3" OF COMPOST OVER LOOSENED SOIL. USING AN AIR KNIFE MIX COMPOST INTO LOOSENED SOIL.
- STEP 4 - WATER ENTIRE ROOT ZONE AT END OF EACH WORK DAY.
- STEP 5- SEE PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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1 MODIFIED EXISTING SOIL - COMPACTED SUB SOIL

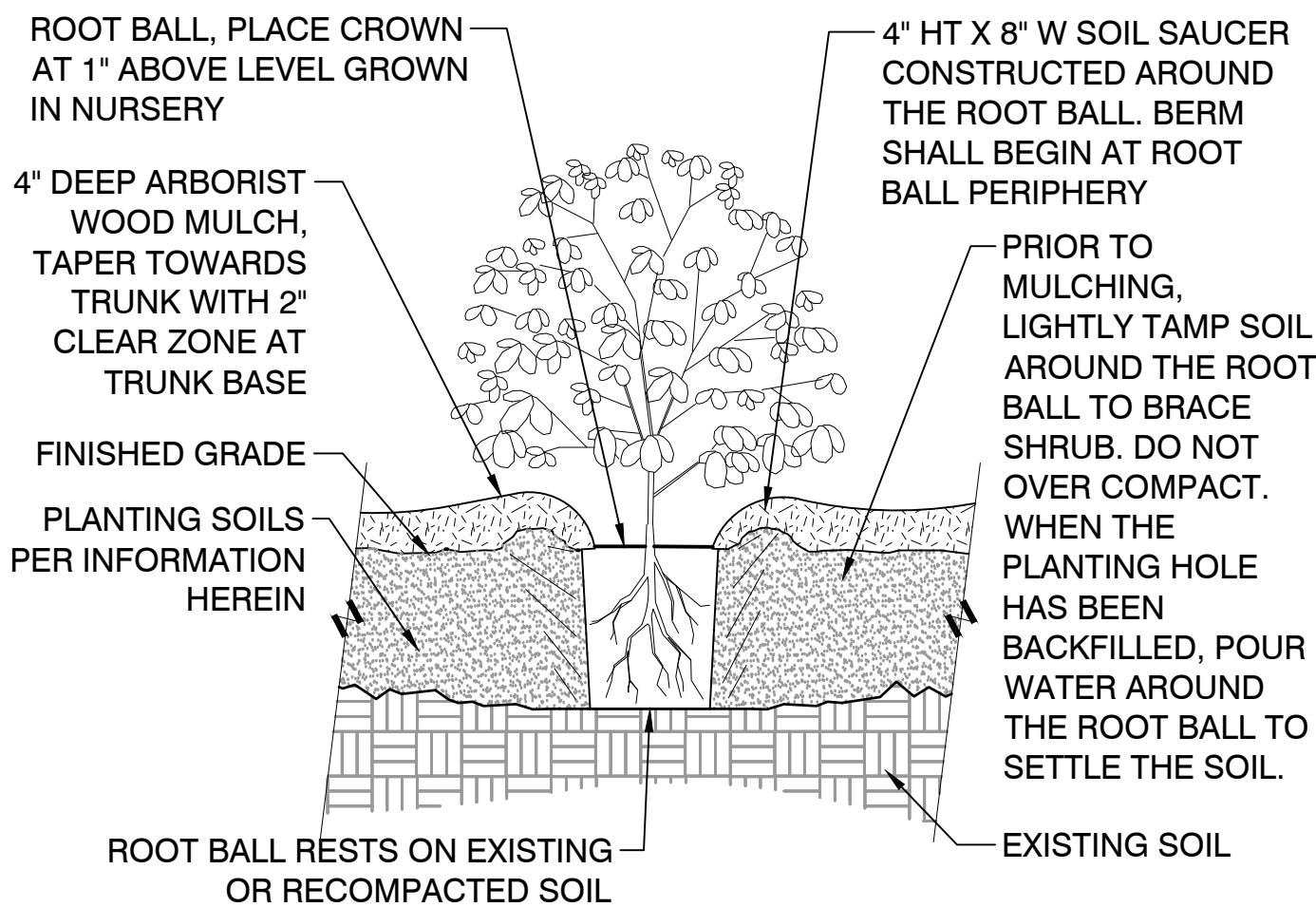
1/2" = 1'-0"

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2 MODIFIED EXISTING SOIL - COMPACTED SOIL IN TREE DRIPLIN

3/4" = 1'-0"

P-PR-ASH-15

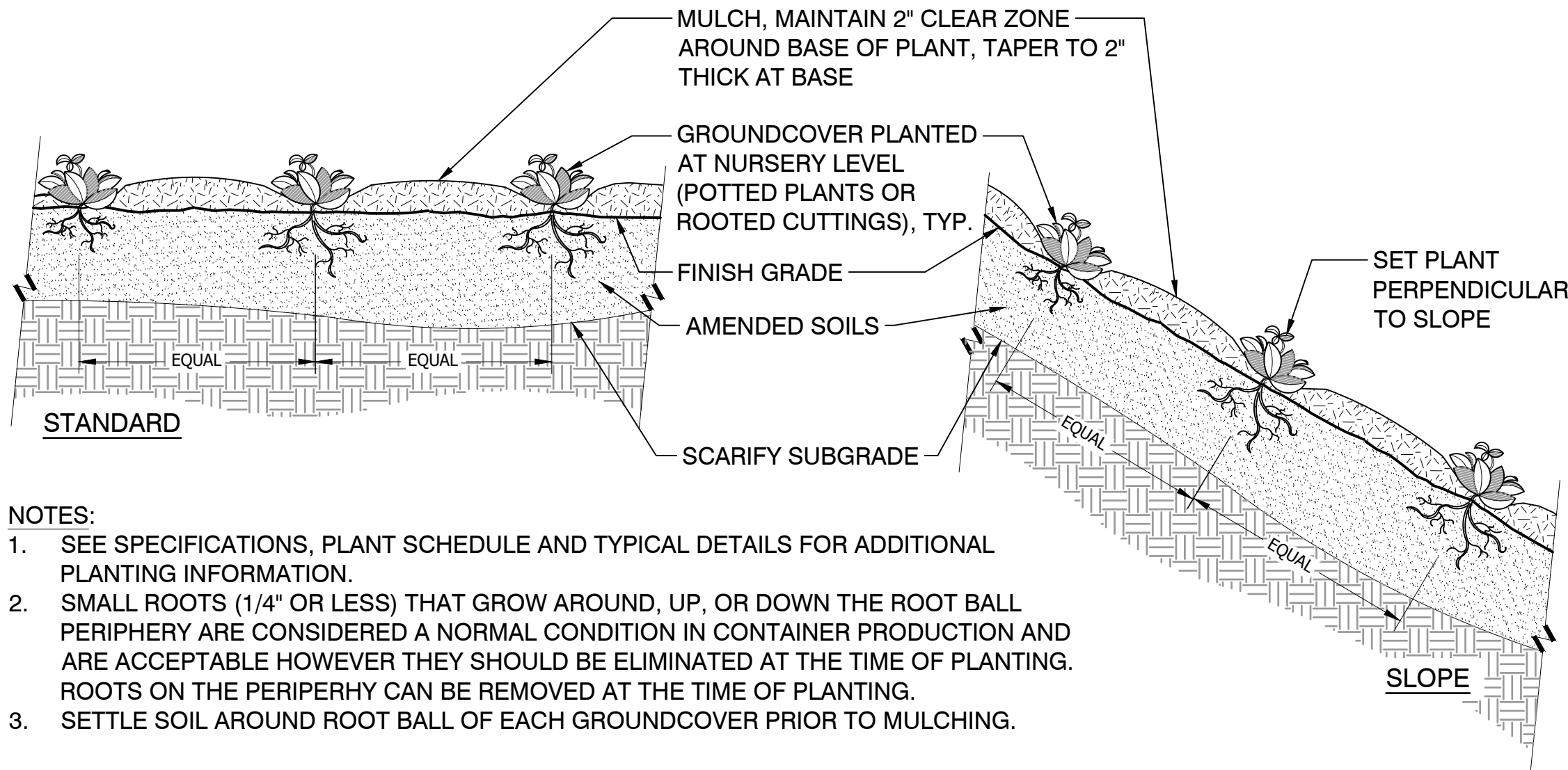


- NOTES:
- SHRUBS PER ANSI STANDARDS
 - REMOVE ALL BINDING, BURLAP AND CONTAINERS FROM TRUNK AND ROOTBALL. PROVIDE PHOTO EVIDENCE OF REMOVAL TO OWNER'S REP.

3 SHRUB TYPICAL PLANTING

3/4" = 1'-0"

P-PR-ASH-49

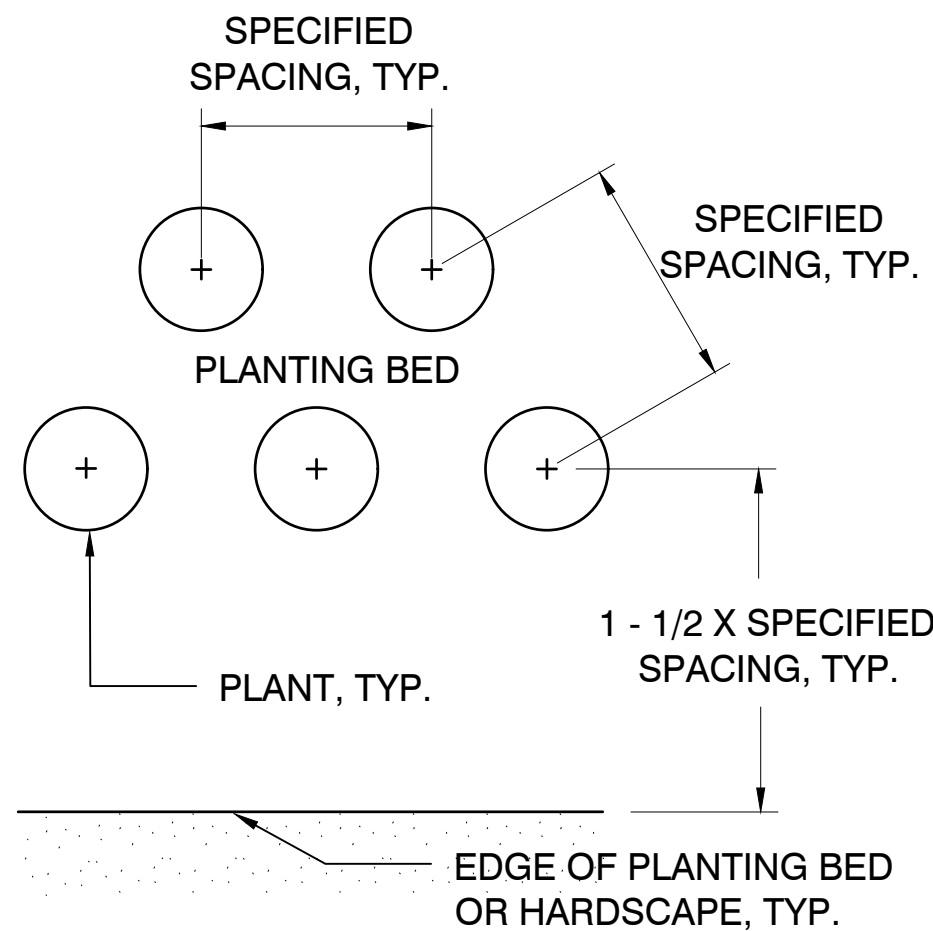


- NOTES:
- SEE SPECIFICATIONS, PLANT SCHEDULE AND TYPICAL DETAILS FOR ADDITIONAL PLANTING INFORMATION.
 - SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING.
 - SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

4 GROUNDCOVER PLANTING

3/4" = 1'-0"

P-PR-ASH-50



5 PLANT SPACING DETAIL, TYP.

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PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK PLANTING DETAIL	
SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L5.20
SHEET NO:	39 OF 49

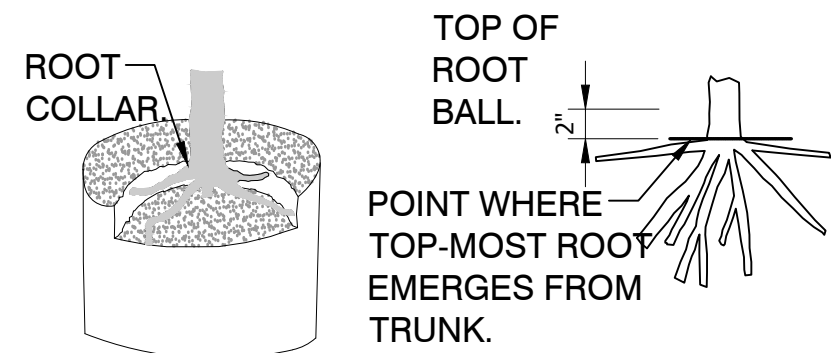
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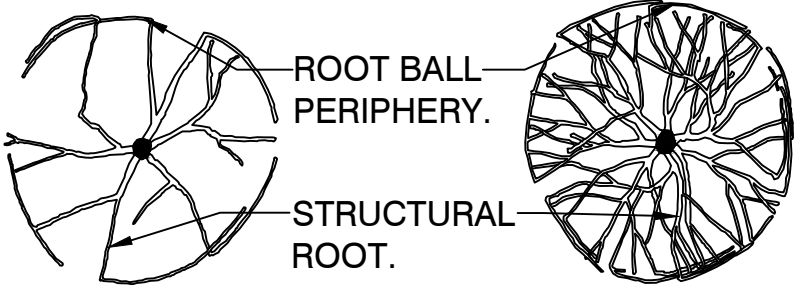
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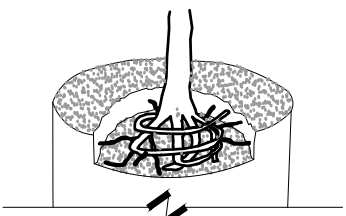


THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE. THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS. STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.

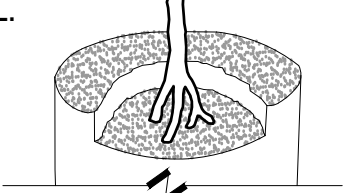


ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFLECTING DOWN OR AROUND.

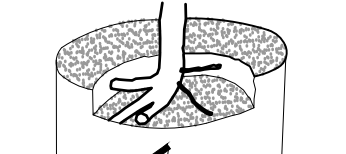
REJECT IF:



STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.



STRUCTURAL ROOTS DESCEND INTO ROOT BALL INTERIOR. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.



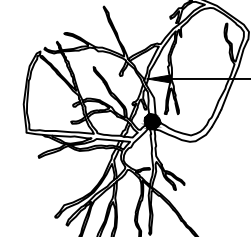
STRUCTURAL ROOTS PRIMARILY GROW TO ONE SIDE.



ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.

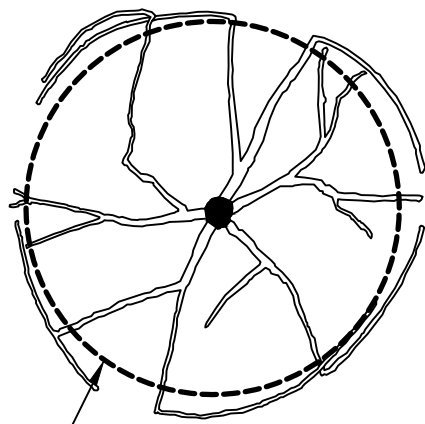


STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.



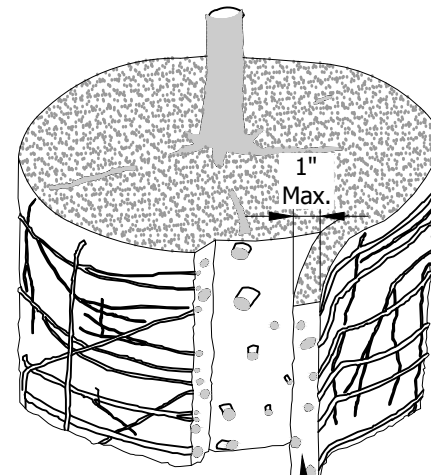
ROOTS GROWING TANGENT TO TRUNK. STRUCTURAL ROOTS MISSING FROM ONE SIDE, AND/OR GROW TANGENT TO TRUNK.

BEFORE SHAVING



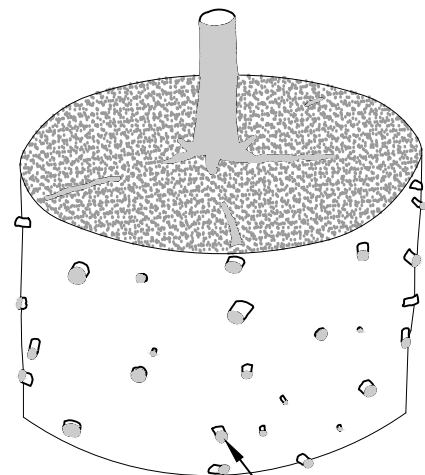
SHAVE ROOT BALL HERE TO REMOVE ALL ROOTS GROWING ON PERIPHERY.

SHAVING PROCESS



SHAVE OUTER PERIPHERY OF THE ROOT BALL A MAXIMUM OF 1" THICK.

SHAVING COMPLETE



ROOT TIPS EXPOSED AT PERIPHERY OF ROOT BALL. ALL ROOTS GROWING AROUND PERIPHERY ARE REMOVED.

NOTES:

- SHAVING TO BE CONDUCTED USING A SHARP BLADE OR HAND SAW ELIMINATING NO MORE THAN NEEDED TO REMOVE ALL ROOTS ON THE PERIPHERY OF ROOT BALL.
- SHAVING CAN BE PERFORMED JUST PRIOR TO PLANTING OR AFTER PLACING IN THE HOLE.

1 ROOT OBSERVATION DETAIL - CONTAINER

1" = 1'-0"

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2 ROOT BALL SHAVING CONTAINER DETAIL

3" = 1'-0"

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PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK
PLANTING DETAILS

SCALE:	AS SHOWN
PROJECT NO:	18002
DRAWING NO:	L5.21
SHEET NO:	40 OF 49

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MATERIAL SCHEDULE

SYMBOL	03 CONCRETE DESCRIPTION	QTY	DETAIL
[03-02]	PRE-CAST CONC STEAMER TRUNK SEATING	5	6/L5.07
[03-03]	PRE-CAST CONC HIDDEN TROLL & FOOTING	6	7/L5.07
[03-04]	CIP CONC STAIR	100 LF	3/L5.00
[03-05-05]	CIP CONC. 4" THICKNESS	41.61 CY	1/L5.00
[03-05-06]	CIP CONC THICKENED EDGE AT PLAZA	0.88 CY	2/L5.00
SYMBOL	05 METALS DESCRIPTION	QTY	DETAIL
[05-01]	INTERPRETIVE SIGNAGE - GROUND MOUNTED	10	2/L5.03
[05-03]	SS ARCH W/ LED RIBBON LIGHTING	1	1/L5.06
[05-04]	SS DONOR MEDALLIONS (SET OF 3)	38	7/L5.00
[05-06]	SS INLAID BANDING	90 LF	4/L5.00
[05-07]	SS MIDSUMMER POLE	1	1/L5.05
SYMBOL	FLAGPOLES DESCRIPTION	QTY	DETAIL
[32-40]	FLAG POLE - 20FT	6	5/L5.08
SYMBOL	STORM DRAINAGE UTILITIES DESCRIPTION	QTY	DETAIL
[33-40]	TRENCH DRAIN_ 5" RADIAL RUNNEL SECTION	15 LF	4/L5.01
[33-41]	TRENCH DRAIN_6 " W/ HALF CIRCLE RUNNEL SECTION	2	4/L5.01
[33-43]	TRENCH DRAIN_5" STRAIGHT SECTION	23 LF	4/L5.01
[33-45]	DECORATIVE CATCH BASIN COVER	1	4/L5.08
SYMBOL	ELECTRICAL DESCRIPTION	QTY	DETAIL
[E-102]	BOLLARD LIGHT W/ DECORATIVE SLEEVE	4	1/L5.08
[E-103]	RECESSED LED RIBBON LIGHT @ RAMP WALL	254 LF	3/L5.02

SYMBOL	ROCK DESCRIPTION	QTY	DETAIL
[K-101]	LANDSCAPE BOULDER , 2-3 MAN	10	1/L5.07
[K-102]	ENGRAVED GRANITE PILLAR	5	4/L5.07
[K-103]	BAS RELIEF GRANITE SCULPTURE	6	3/L5.07
[K-105]	PARK SIGN - RUNE STONE	1	5/L5.07 '
[K-106]	PARK SIGN - GRANITE SLAB	2	/
SYMBOL	RAIL DESCRIPTION	QTY	DETAIL
[R-101]	SS PIPE HANDRAIL	167 LF	1/L5.04
[R-102]	SS DECORATIVE RAIL	121 LF	1/L5.03
[R-103]	SKATE DETERRENT	328 LF	3/L5.04
[R-104]	SS PIPE HANDRAIL W/ INTEGRAGED LED LIGHTING	23 LF	2/L5.01
SYMBOL	SITE FURNISHINGS DESCRIPTION	QTY	DETAIL
[S-129]	PARK BENCH, 48" LENGTH	3	2/L5.08
[S-130]	PARK RULES SIGNAGE W/ FOOTING	3	5/L5.00
[S-132]	TRASH & RECYCLE	2	3/L5.08

GENERAL MATERIALS NOTES

- PRESERVE AND PROTECT EXISTING SITE ELEMENTS TO REMAIN.
- MATERIALS IN ACCESSIBLE ROUTES TO ADHERE TO ACCESSIBILITY STANDARDS.
- MATERIAL QUANTITIES ARE APPROXIMATED AND TO BE VERIFIED BY CONTRACTOR.
- SEE CIVIL DRAWINGS FOR STORM DRAIN, INLETS, PIPING LOCATIONS, AND DETAILS.
- PRESERVE AND PROTECT EXISTING SITE ELEMENTS TO REMAIN.
- CONFIRM EXTENTS OF FINISH MATERIAL IN FIELD WITH LANDSCAPE ARCHITECT.
- RAMP WALL; CONFIRM LAYOUT PRIOR TO CONSTRUCTION.
- NEW PEDESTRIAN ACCESS RAMP; SEE CIVIL DRAWINGS FOR LAYOUT AND DETAILS.
- SHOP DWGS TO BE PROVIDED BY FABRICATOR & REVIEWED BY LANDSCAPE ARCHITECT.
- ELECTRICIAN TO PROVIDE DESIGN BUILD LIGHTING PLAN MEETING ODOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- FOR SPECIFICATIONS: REFER TO ODOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

GENERAL LAYOUT NOTES

- ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE, LARGER SCALE OVER SMALLER SCALE, ADDENDA AND CLARIFICATIONS OVER PREVIOUS DOCUMENTS.
- LAYOUT PLAN DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS OR OTHER DRAWINGS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY FOR PROPER CLARIFICATION OR ADJUSTMENT.
- CONTRACTOR TO STAKE CONCRETE PAVING AND CURBS IN FIELD AND REVIEW WITH LANDSCAPE ARCHITECT PRIOR TO SETTING FORM WORK.
- WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTER LINES.
- MEASUREMENTS ARE TO WALL OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES IS AS INDICATED.
- INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
- PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.
- SET NEW PAVING FLUSH WITH EXISTING ADJACENT PAVING.
- EXPANSION JOINTS IN CONCRETE WALKWAYS SHALL BE LOCATED TWENTY FEET 20'-0" O.C. MAXIMUM OR AS INDICATED.
- EXPANSION JOINT AND CONTROL JOINT LAYOUT IS DIAGRAMMATIC AND FOR PRICING PURPOSES ONLY. CONTRACTOR TO VERIFY JOINT LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- COORDINATE FINAL LOCATION OF SITE FURNISHINGS IN FIELD WITH LANDSCAPE ARCHITECT.
- WALKWAYS TO ADHERE TO ACCESSIBLE STANDARDS WITH MAX 5% LONGITUDINAL SLOPE AND 2% CROSS SLOPE. MINIMUM SLOPE OF .05% ON ALL SURFACES.
- REFER TO CIVIL SET FOR ADDITIONAL DRAINAGE AND GRADING INFORMATION.
- AREAS WITHIN THE LIMIT OF WORK LINE THAT ARE DISTURBED OUTSIDE OF THE PROPOSED PLANTING AREAS ARE TO BE HYDROSEEDDED, SEE L3.00.
- ELECTRICIAN TO PROVIDE LIGHTING PLAN.
- CIVIL TO PROVIDE LOCATE SLEEVES FOR ELECTRICAL CONDUIT.
- SEE L4.00 FOR RAMP & PLAZA DIMENSIONS LAYOUT DIMENSIONED TO OUTSIDE OF CURVED CENTERLINE. CURVES TO BE SMOOTH; CONFIRM LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

DRAWING ISSUE

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No.

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DATE

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DATE

02/01/2019

The West Studio

REGISTERED

910

Audrey West.

Audrey R. West

OREGON

10/31/19

LANDSCAPE ARCHITECT

DESIGNED:

M. BJORK

DESIGNED:

P. SOREY

DESIGNED:

A. WEST

CHECKED:

-

DRAWN:

M. BJORK

DRAWN:

P. SOREY

DRAWN:

N. PRICE

APPROVED:

A. WEST

ASTORIA SCANDINAVIAN HERITAGE PARK

PROJECT LOCATION:

16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:

ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION

PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN HERITAGE PARK

MATERIALS SCHEDULE

SCALE:

AS SHOWN

PROJECT NO:

18002

DRAWING NO:

L6.00

SHEET NO:

41

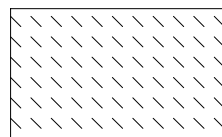
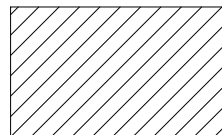
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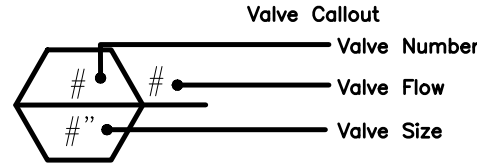
IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	QTY	PRECIP	PSI	GPM
	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M) DRIPLINE WITH 0.90 GPH EMITTERS AT 18" O.C., ROW SPACING AT 18" O.C.	1,239 S.F.	1.03 in/h	25	13
	SHRUB ROTARY (TORO, RAIN BIRD) 12` TO 24` RADIUS (3,7M-7,3M), TRIANGULAR SPACED, HEAD TO HEAD COVERAGE.	912.4 S.F.	0.68 in/h	40	6

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	RAIN BIRD XCZ-100-PRF MEDIUM FLOW DRIP CONTROL KIT, 1" DV VALVE, 1" PRESSURE REGULATING FILTER, 40PSI PRESSURE REGULATOR. 3GPM - 15GPM.	2	3/L5.11

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	1	1/L5.11
	RAIN BIRD 33-DNP 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY. (PROVIDE 2 33-DK KEYS)	2	7/L5.10
	RAIN BIRD ESP-8LXME-LXMMSSPED 8 STATION CAPABLE COMMERCIAL CONTROLLER. MOUNTED ON A SS METAL PEDESTAL. WITHOUT FLOW SENSING.	1	
	POINT OF CONNECTION 3/4"	1	1/L5.10
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	311.3 L.F.	2/L5.10
	IRRIGATION MAINLINE: PVC SCHEDULE 40	230.4 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	153.4 L.F.	3/L5.10

Valve Callout



Valve Number
Valve Flow
Valve Size

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	DESIGN PSI	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB-PRS-D	1"	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M)	6.39	28.1	25	1.73	27.63	29.03	1.03 in/h
2	RAIN BIRD PEB-PRS-D	1"	SHRUB ROTARY (TORO, RAIN BIRD)	6.42	83.1	40	1.73	44.89	47	0.68 in/h
3	RAIN BIRD PEB-PRS-D Common Wire	1"	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M)	10.19	85.5 170.3	25	1.82	28.09	33.11	0.91 in/h

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	RAIN BIRD PEB-PRS-D	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M)	1.03 in/h	1	59	376.9	188.4
2	RAIN BIRD PEB-PRS-D	SHRUB ROTARY (TORO, RAIN BIRD)	0.68 in/h	1	89	571.5	285.8
3	RAIN BIRD PEB-PRS-D	SHRUB DRIPLINE 0.9 GPH @ 18" O.C. (3.5 L/H @ 0.46M)	0.91 in/h	1	66	672.9	336.4
		TOTALS:			214	1,621	810.6

IRRIGATION NOTES

1. SEE GENERAL CONDITIONS NOTES ON SHEET G1.01

2. IRRIGATION PLAN IS SCHEMATIC AND NOT FOR CONSTRUCTION. CONTRACTOR DESIGN/BUILD THE FINAL IRRIGATION SYSTEM, MEETING ODOT STANDARD SPECIFICATIONS AS PER THE CITY OF ASTORIA.

8. ALL PLANTED AREAS TO BE IRRIGATED AS INDICATED ON PLAN. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE HEAD TO HEAD COVERAGE AND TO ELIMINATE OVER SPRAY ON ADJACENT PAVEMENT, BUILDINGS, FENCES, ETC. SEE CORRESPONDING PLANTING PLAN FOR LAYOUT.

9. INSTALLATION OF MATERIALS SHALL BE PER MANUFACTURERS RECOMMENDATIONS OR AS SPECIFIED.

10. THE IRRIGATION SYSTEM SHALL BE CONSTRUCTED FOR WINTERIZATION BY THE CONTRACTOR.

11. ALL MATERIALS SHALL BE NEW, WITHOUT FLAWS AND CONSIDERED THE BEST AVAILABLE IN STOCK. THE COMPLETE SYSTEM SHALL HAVE A ONE-YEAR WARRANTY AFTER FINAL PROJECT ACCEPTANCE ON ALL PARTS AND LABOR.

12. SLEEVING IS REQUIRED FOR ALL IRRIGATION MAIN LINES, LATERALS AND CONTROL WIRES UNDER NEW AND EXISTING PAVEMENTS, WALLS, CURBS, ETC. SLEEVING PIPE TO GO FROM PLANTING BED TO PLANTING BED. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SLEEVING INSTALLATION AND SPECIFIC LOCATIONS FOR COMPLETE INSTALLATION OF WORK. ALL SLEEVING SHALL BE AS INDICATED ON DRAWINGS. IF NOT SHOWN, SLEEVE SHALL BE 2 TIMES THE DIAMETER OF THE INSERTED IRRIGATION PIPE.

13. MAIN LINE PIPING LAYOUT, SLEEVES, AND VALVE LOCATIONS SHALL BE STAKED IN FIELD BY CONTRACTOR. STAKING AND PRESSURE SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO INSTALLATION.

14. MAINLINE TO BE BURIED 18" MIN. DEPTH.

15. FLUSH VALVES AND AIR RELIEF VALVES ARE SCHEMATICALLY LOCATED ON PLAN. CONTRACTOR SHALL VERIFY HIGH AND LOW SPOTS IN THE SYSTEM TO ACCURATELY LOCATE VALVES.

16. CONTRACTOR TO PROVIDE EXTRA CAUTION WHILE WORKING AROUND (AND WITHIN, IF NECESSARY) THE CRITICAL ROOT ZONE OF EXISTING TREES THAT ARE TO REMAIN. SEE PLANTING PLAN DRAWINGS FOR LOCATION OF TREES TO BE PROTECTED.

17. ALL WORK WITHIN CRITICAL ROOT ZONES OF EXISTING TREES SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 01 56 39 ON TREE PROTECTION. ROUTE IRRIGATION LINES AROUND OR UNDER EXISTING TREE ROOTS, OR AS DETAILED IN THE SPECIFICATIONS. TRENCHES HAVING EXPOSED TREE ROOTS SHALL BE BACK FILLED WITHIN 24 HOURS UNLESS ADEQUATELY PROTECTED BY MOIST SOIL OR MULCH AS APPROVED BY PROJECT ENGINEER. AVOID CUTTING ROOTS.
18. ALL VALVE BOXES SHALL HAVE STAINLESS LOCKING HARDWARE. VALVE BOXES SHALL BE CENTERED ABOVE VALVE ASSEMBLIES TO FACILITATE ACCESS AND MAINTENANCE, AND BE FLUSH WITH FINISH GRADE. ALIGN VALVE BOXES SQUARE TO EACH OTHER AND WITH EDGE OF ADJACENT CURB, PAVEMENT, OR BUILDING. LOCATE VALVE BOXES MIN 12" FROM CURBS, WALKS, AND PATHWAYS.

19. MAIN LINE PIPING LAYOUT, SLEEVES, AND VALVE LOCATIONS SHALL BE STAKED IN FIELD BY CONTRACTOR AND APPROVED BY OWNERS REPRESENTATIVE.

20. WHEN THE SYSTEM IS COMPLETE, THE CONTRACTOR SHALL PERFORM A COVERAGE TEST. THE IRRIGATION SYSTEM SHALL PROVIDE 100% COVERAGE OF ALL LANDSCAPE PLANTING AREAS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SETTling IN THE IRRIGATION TRENCHES OR ASSOCIATED IRRIGATION WORK AS A WARRANTY ITEM.

22. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN A LOCATION AS SHOWN ON THE PLANS. THE OWNER'S REPRESENTATIVE WILL APPROVE FINAL CONTROLLER LOCATION.

23. COORDINATE POWER TO CONTROLLER AND CONTROL COMPONENTS. TEMPORARY POWER MAY BE REQUIRED FOR SYSTEMS OPERATION.

24. PRIOR TO FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL INSTRUCT THE OWNER, OR THEIR REPRESENTATIVE, IN THE PROPER OPERATION, MAINTENANCE AND WINTERIZATION OF THE ENTIRE IRRIGATION SYSTEM.

25. THE CONTRACTOR SHALL PROVIDE AND KEEP CURRENT A COMPLETE SET OF RECORD DRAWINGS WHICH SHALL BE CORRECTED DAILY TO SHOW CHANGES IN THE ORIGINAL DRAWINGS, ALL MAINLINE PIPING AND VALVE LOCATIONS SHALL BE SHOWN WITH ACTUAL MEASUREMENTS TO REFERENCE POINTS.

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	3/4"
Flow Available:	12.50 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	110.00 psi
Pressure Available:	110.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	10.19 gpm
Flow Available at POC:	12.50 gpm
Residual Flow Available:	2.31 gpm
Critical Station:	2
Design Pressure:	40.00 psi
Friction Loss:	2.88 psi
Fittings Loss:	0.29 psi
Elevation Loss:	0.00 psi
Loss through Valve:	1.73 psi
Pressure Req. at Critical Station:	44.90 psi
Loss for Fittings:	0.19 psi
Loss for Main Line:	1.91 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Critical Station Pressure at POC:	47.00 psi
Pressure Available:	110.00 psi
Residual Pressure Available:	63.00 psi

DRAWING ISSUE

100% ENGINEERED PLANS

DATE

02/01/2019

No.	REVISION	DATE
	NOT FOR CONSTRUCTION	





DESIGNED: M. BJORK	DRAWN: M. BJORK
DESIGNED: P. SOREY	DRAWN: P. SOREY
DESIGNED: A. WEST	DRAWN: N. PRICE
CHECKED: -	APPROVED: A. WEST



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

IRRIGATION SCHEDULE

SCALE:
AS SHOWN

PROJECT NO:
18002

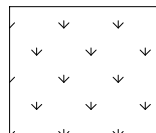
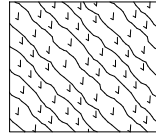
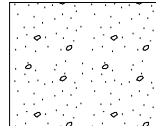
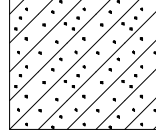
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PLANT SCHEDULE							LANDSCAPE PLANTING NOTES										
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	NOTES	DETAIL	1. REFER TO CIVIL ENGINEER'S UTILITY AND GRADING AND DRAINAGE PLANS FOR UTILITY LOCATION AND DRAINAGE INFORMATION. REFER TO CIVIL ENGINEER'S GRADING PLANS FOR GRADING INFORMATION. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS OR IF THERE ARE DISCREPANCIES BETWEEN THE PLANS, CONTACT THE LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED. 2. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO COMMENCING WORK. 3. EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD. 4. SHRUB PLANTINGS ATOP BURIED STRUCTURES SHALL BE PLANTED IN A MINIMUM DEPTH OF 30-INCHES OF SOIL MEDIUM. 5. VERIFY PLANT COUNTS AND SQUARE FOOTAGES: QUANTITIES ARE PROVIDED AS OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC INDICATIONS, THEN GRAPHICS SHALL PREVAIL. 6. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION. 7. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND IF NECESSARY, BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. 8. ALL EXISTING TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING. 9. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS. 10. PRUNING OF EXISTING TREES SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS. 11. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS SHRUBS AND GROUNDCOVER AS DESIGNATED PER THESE NOTES AND DRAWINGS. 12. FINISH GRADES OF PLANTER AREAS SHALL BE 1/2 INCH BELOW ADJACENT PAVING OR TOP OF WALL UNLESS OTHERWISE NOTED. 13. PROVIDE SPECIFIED EDGING AS DIVIDER BETWEEN PLANTING BEDS AND LAWN AREAS. 14. REMOVE ENTIRE WIRE CAGE FROM ROOTBALL AND LEAVE AT SURFACE FOR FIELD VERIFICATION BY LANDSCAPE ARCHITECT. 15. CUT AND REMOVE BURLAP FROM TOP 2/3 OF BALL, LEAVE AT SURFACE FOR FIELD VERIFICATION BY LANDSCAPE ARCHITECT. 16. LANDSCAPE ARCHITECT TO REVIEW PLANT MATERIALS AT SOURCE OR BY PHOTOGRAPHS PRIOR TO DIGGING OR SHIPPING OF PLANT MATERIALS. 17. LANDSCAPE AREAS SHALL BE SUPPLIED WITH [TEMPORARY] IRRIGATION FOR A [TWO/THREE] YEAR PLANT ESTABLISHMENT PERIOD USING AN IN-GROUND IRRIGATION SYSTEM.										
	75	ARCTOSTAPHYLOS UVA-URSI `MASSACHUSETTS` MASSACHUSETTS MANZANITA	1 GAL.	12" MIN. SPREAD	FULL AND EVEN SPREAD	3/L5.20											
	17	CEANOTHUS GLORIOSUS `ANCHOR BAY` ANCHOR BAY LILAC	3 GAL.	30" MIN. SPREAD	FULL AND EVEN SPREAD	3/L5.20											
	51	POLYSTICHUM MUNITUM WESTERN SWORD FERN	1 GAL.	12" MIN. HT.		3/L5.20											
	9	SENECIO GREYI DAISY BUSH	3 GAL.	24" MIN. SPREAD	FULL & BUSHY	3/L5.20											
ANNUALS/PERENNIALS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	NOTES	DETAIL											
	24	CAMASSIA LEICHTLINII INDIAN HYACINTH	1 GAL.			4/L5.20											
	63	GALANTHUS NIVALIS SNOWDROP	BULB	5 BULBS PER AREA	PLANT PER GROWERS INSTRUCTIONS	4/L5.20											
	40	GEUM X `TOTALLY TANGERINE` TANGERINE GEUM	1 GAL.	6" MIN. SPREAD		4/L5.20											
	23	IRIS TENAX OREGON IRIS	1 GAL.			4/L5.20											
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING	NOTES	SPACING	DETAIL										
	3,402 SF	LAWN ECO MIX PER ODOT STND HYDRO SEED MIX		HYDROSEED	PER ODOT STANDARDS												
	46	MAHONIA REPENS CREEPING MAHONIA	1 GAL.	9" MIN. SPREAD		30" o.c.	4/L5.20										
	127	SAGINA SUBULATA `AUREA` SCOTCH MOSS	4" POT	6" MIN. SPREAD		12" o.c.	4/L5.20										
	158	SEDUM OREGANUM OREGON SEDUM	4" POT	6" MIN. SPREAD		12" o.c.	4/L5.20										
SOIL PREPARATION							TREE PRESERVATION NOTES										
1. SOIL PREPARATION OF A LANDSCAPE DESIGN IS A CRITICAL FACTOR IN CREATING A HEALTHY AND LONG-LASTING LANDSCAPE. REMOVE EXISTING TOPSOIL AND STOCKPILE ON SITE. TOPSOIL TO BE INCORPORATED BACK INTO THE SOIL AT A LATER DATE. CONTRACTOR TO CONDUCT A SOIL EVALUATION TO DETERMINE THE SOIL'S COMPOSITION, COMPACTION RATE, NUTRIENT QUALITIES, ORGANIC CONTENT, PH LEVELS, AND WATER HOLDING CAPABILITIES. THE IDEAL PARTICLE SOIL MIX IS APPROXIMATELY 45% SAND, 40% SILT, 10% CLAY AND 5% ORGANIC MATERIAL WITH A PH LEVEL NEAR SEVEN.			SHOULD BE AT VARYING ANGLES TO ENSURE ADEQUATE COVERAGE. WHEN USING DISC OR RIPPING EQUIPMENT, IT IS REQUIRED THAT THE FINAL PASSES OVER THE AREA BE MADE WITH A ROTO-TILLER TO BREAK UP ANY LARGE CLUMPS TO MAKE FINAL GRADING EASIER.				1. ALL TREES TO BE PRESERVED AS INDICATED ON THE [LANDSCAPE DEMOLITION PLAN] SHALL BE PROTECTED BY 6' CHAINLINK FENCE. THE FENCE SHALL BE LOCATED AT THE DRIPLINE OF THE TREE, DESIGNATED AS THE LINE ON THE GROUND OF POINTS PROJECTED VERTICALLY FROM THE ENDS OF THE FARTHEST BRANCHES OF THE TREE. PLACE 6" DEPTH OF ARBORIST WOODCHIP MULCH WITHIN THIS AREA. THE FENCE SHALL BE FIRMLY ANCHORED INTO THE GROUND AND SHALL REMAIN UPRIGHT AND INTACT UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETE. CONSTRUCTION ACTIVITIES OR STORAGE SHALL NOT OCCUR WITHIN THESE PROTECTED AREAS. THE CONTRACTOR SHALL STAKE THE PROTECTIVE FENCING LOCATION. THE LOCATION OF THE PROTECTIVE FENCING SHALL BE APPROVED ONSITE BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF ANY SITE WORK.			UTILITY WORK WITH THE LANDSCAPE PLANS.							
2. PRIOR TO THE INSTALLATION OF THE LANDSCAPE AND IRRIGATION SYSTEM, CONTRACTOR TO PREPARE SOIL TO ENSURE A PROPER ENVIRONMENT FOR PLANT ROOT DEVELOPMENT.			5. AFTER INITIAL SOIL DE-COMPACTION PROCEDURES ARE PERFORMED, SOIL AMENDMENTS SHOULD BE ADDED. THE ADDITION OF SOIL AMENDMENTS IS DETERMINED FROM SOIL TESTS CONDUCTED PRIOR TO WORK COMMENCING. SOIL AMENDMENT MAY INCLUDE INORGANIC MATERIAL SUCH AS SAND, SILT OR CLAY, WHICH HELP IMPROVE SOIL TEXTURE. ORGANIC MATERIAL SUCH AS COMPOST, MANURE, AND PEAT MOSS MAY ALSO BE USED AND HELP IMPROVE SOIL STRUCTURE. OTHER AMENDMENTS SUCH AS FERTILIZER IMPROVE NUTRIENT CONTENT AND SULFUR ADJUSTS THE SOIL PH LEVEL. SULFUR SHALL BE INCORPORATED AT THE RATE OF ONE POUND OF SULFUR PER 100 SQUARE FEET.				2. WHEN EXCAVATION NEAR A TREE TO BE PROTECTED MUST BE CARRIED OUT, DAMAGE CAN BE LIMITED BY ROOT PRUNING. ROOT PRUNING SHALL BE COMPLETED BEFORE GRADING IS STARTED AND SHALL OCCUR BENEATH THE PROTECTIVE FENCING AS SHOWN ON THE PLAN.			4. THE BEST METHOD TO AVOID SOIL COMPACTION IS TO KEEP OFF. THIS INCLUDES RESTRICTING ALL TRAFFIC BOTH VEHICULAR AND PEDESTRIAN FROM CROSSING OVER THE ROOT ZONES, AND RESTRICTING EVEN TEMPORARY MATERIAL STORAGE UNDER TREES.							
3. CONTRACTOR TO DE-COMPACT SOILS IN PLANTING AREAS BY ROTO-TILLING, DISKING OR RIPPING TO A DEPTH OF 6" TO 8" MINIMUM AND PREFERABLY A DEPTH OF 12" TO 18". DE-COMPACTION OF SMALL PLANTER AREAS, SUCH AS THOSE IN PARKING LOT AREAS, MAY REQUIRE THE REMOVAL OF THE COMPACTED SOIL TO A DEPTH OF 18" OR MORE AND THEN RE-INSTALLED LOOSELY WITH REQUIRED AMENDMENTS. ALWAYS REMOVE DEBRIS OF 2" IN SIZE FROM THE SOIL.			6. ALL AMENDMENTS SHOULD BE MIXED THOROUGHLY WITH EXISTING SOIL AND AN ADDITIONAL SOIL TEST WILL BE TAKEN TO ENSURE PROPER SOIL CONDITIONS PRIOR TO PLANTING.				3. ROOT PRUNING SHALL BE PERFORMED, WHEN REQUIRED, WITH A TRENCHER SUCH AS A TELEPHONE CABLE PULLER OR A "DITCH WITCH" PRIOR TO ADJACENT EXCAVATION. THE TRENCHING SHALL BE TO A MINIMUM DEPTH OF 24" OR THE DEPTH OF EXCAVATION. THE CONTRACTOR SHALL STAKE THE LIMIT OF ROOT PRUNING AS PER THE PLAN. LIMITS OF TRENCHING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING IN THE FIELD. DO NOT TRENCH FOR IRRIGATION OR ELECTRICAL WITHIN DRIP LINES OF EXISTING TREES. COORDINATE ALL TRENCHING REQUIRED FOR			5.A. REPLACE AT OWNER'S DIRECTION ANY TREE LOST OR WHICH IS IRREPARABLY DAMAGED AS A RESULT OF FAILURE TO PROTECT OR ADEQUATELY MAINTAIN EXISTING TREES. TREES WHICH FAIL TO FULLY FOLIATE IN THE SPRING FOLLOWING COMPLETION OF VERTICAL, PARKS AND INFRASTRUCTURE OPERATIONS WILL BE PRESUMED TO HAVE BEEN LOST DUE TO THE INFRASTRUCTURE CONTRACTOR'S OPERATIONS.							
4. WHEN PERFORMING SOIL DE-COMPACTION, MULTIPLE PASSES ACROSS THE AREA WILL BE REQUIRED AND, WHEN POSSIBLE,			7. DURING THE REMAINDER OF THE LANDSCAPE INSTALLATION, VARIOUS AREAS OF THE SITE MAY BE RE-COMPACTED THE SOIL. PRIOR TO THE INSTALLATION OF PLANT MATERIAL IN THESE AREAS, THE COMPACTION SHALL BE REDUCED TO 80% OR LESS USING PREVIOUSLY DESCRIBED METHODS.							5.B. IN THE EVENT OF INJURIES TO THE CROWN, TRUNK, OR ROOT SYSTEM OF ANY TREE TO REMAIN THAT ARE THE RESULT OF FAILURE TO PROTECT AND/OR MAINTAIN SUCH TREE, THE OWNER MAY ELECT TO RETAIN THE TREE AND ASSIGN DAMAGES. THE CONTRACTOR WILL THEN BE ASSESSED A PENALTY OF EITHER 1) \$35,000 FOR CHAIN LINK FENCE PROTECTED TREES OR 2) \$15,000 FOR SNOW FENCE PROTECTED TREES.							
DRAWING ISSUE							DATE			PROJECT LOCATION:			SCALE: AS SHOWN				
100% ENGINEERED PLANS							02/01/2019			16TH AND MARINE DRIVE ASTORIA, OREGON 97103			ASTORIA SCANDINAVIAN HERITAGE PARK				
No. REVISION DATE										CLIENT:			PLANT SCHEDULE				
										ASTORIA SCANDINAVIAN HERITAGE ASSOCIATION							
										PO BOX 34 ASTORIA, OREGON 97103			L6.20				
													SHEET NO: 43 OF 49				
NOT FOR CONSTRUCTION																	
The West Studio							REGISTERED LANDSCAPE ARCHITECT			DESIGNED: M. BJORK			DRAWN: M. BJORK				
										DESIGNED: P. SOREY			DRAWN: P. SOREY				
						DESIGNED: A. WEST			DRAWN: N. PRICE								
						CHECKED: -			APPROVED: A. WEST								

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VERIFIED BY: / DATE: /

CODE

2014 OREGON STRUCTURAL SPECIALTY CODE

WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL CODES. SPECIFICATIONS AND STANDARDS SHALL BE THE LATEST EDITION, AMENDMENT, OR REVISION OF SUCH REFERENCE STANDARD WHICH IS IN EFFECT AS OF THE DATE OF THE CONTRACT DOCUMENTS.

GENERAL STRUCTURAL NOTES

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND IS RESPONSIBLE FOR ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO: ERECTION MEANS METHODS AND SEQUENCING, BRACING, TEMPORARY SHORING, FORMWORK, JOB SITE SAFETY, AND/OR LOAD EFFECTS DUE TO CONSTRUCTION EQUIPMENT.
- 1.1. CONSTRUCTION MATERIAL ON STRUCTURES SHALL BE SPREAD OUT IN A MANNER AS TO NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- 1.2. VISITS TO THE SITE BY THE ENGINEER OF RECORD SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. THE CONTRACTOR SHALL REVIEW AND REPORT ANY DISCREPANCIES FOUND AMONG THE CONSTRUCTION DRAWINGS, SPECIFICATIONS AND THE EXISTING SITE CONDITIONS PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ENGINEER OF RECORD WHO SHALL CORRECT SUCH DISCREPANCIES IN WITTING.
- 2.1 ANY WORK PERFORMED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCIES, BUT BEFORE A WRITTEN CORRECTION IS PROVIDED, SHALL BE AT THE CONTRACTOR'S RISK
- 2.2 WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES OR SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
3. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE TO COORDINATE BETWEEN DISCIPLINES INCLUDING BUT NOT LIMITED TO:
- 3.1 VERIFICATION OF ALL DIMENSIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
- 3.2 VERIFICATION OF ALL ELEVATIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
- 3.3 VERIFICATION OF ALL MECHANICAL, ELECTRICAL, AND/OR PROCESS EQUIPMENT LOCATION AND WEIGHT
- 3.4 VERIFICATION OF LOCATION AND SIZE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH WALLS, FLOORS AND/OR ROOFS
4. OPTION ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CHANGES NECESSARY, AND SHALL COORDINATE ALL DETAILS.
5. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE SAME STATE IN WHICH THE PROJECT IS LOCATED.
6. ALL DETAIL CUTS SHOULD BE CONSIDERED TYPICAL AT LIKE CONDITIONS.
7. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTING AND COORDINATE ALL REQUIRED INSPECTIONS.
9. CONTRATOR SHALL HAVE A FULLS ET OF THE CURRENT APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ALL ADDENDA, ON THE PROJECT SITE AT ALL TIMES.

DESIGN LOADING CRITERIA

SOIL PARAMETERS	PROVIDED BY GEOENGINEERS GEOTECHNICAL REPORT DATED 11-8-18
BEARING PRESSURES	2000 PSF ALLOWABLE
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR, (I _e)	1.0
MAPPED SPECT. RESPONSE PARAMETERS SITE CLASS	S _s = 1.31, S ₁ = 0.67, F _a = 1.00 & F _v =1.50 D
SEISMIC DESIGN CATEGORY (SDC)	D
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE
WIND DESIGN DATA	
ULTIMATE DESIGN WIND SPEED (VULT)	135 MPH
RISK CATEGORY	I
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+/-0.18

FOUNDATIONS

1. PREPARATION OF SUBGRADE SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS INCLUDING COMPACTION REQUIREMENTS AND VAPOR BARRIER RECOMMENDATIONS
- 1.1. SLABS AND GRADE BEAMS TO BEAR ON NATURAL UNDISTURBED SOIL FREE OF ORGANIC MATTER, OR ON ENGINEERED FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS
- 1.2. PROVIDE DRAINAGE AS NECESSARY TO AVOID A WATER SOFTENED SUBGRADE
- 1.3. PILES SHALL BE DRIVEN TO BEAR ON COMPETENT ROCK
2. BOTTOM OF FOOTINGS TO BE A MINIMUM OF 24" BELOW FINISHED GRADE
3. BACKFILL AGAINST RETAINING WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS

CONCRETE

1. TWENTY-EIGHT DAY MINIMUM COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:
- FOUNDATIONS 3000 PSI (EXPOSURE CLASS C2)
- SLABS (EXT.) 3000 PSI (EXPOSURE CLASS C2)
2. CONCRETE TO HAVE A MAXIMUM WATER/CEMENT RATIOS OF 0.45
3. CONCRETE SHALL CONTAIN A WATER PROOFING PERMEABILITY, REDUCING ADMIXTURE OF THE CRYSTALLINE OR PORE-BLOCKER TYPE
4. MAXIMUM SLUMP 3" PLUS OR MINUS 1".
5. CONCRETE AND REINFORCING TO HAVE SPECIAL INSPECTION IN ACCORDANCE WITH IBC CHAPTER 17.
6. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE MAY BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC..
7. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED.
8. UNLESS NOTED OTHERWISE ON DRAWINGS ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL OR CONSTRUCTION JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET AND THE ENCLOSED AREA'S LENGTH TO WIDTH RATIO IS LESS THAN 2:1.
- 8.1 SAWCUT CONTROL JOINTS 1/4 SLAB DEPTH.
9. MAXIMUM AGGREGATE SIZE SHALL BE LIMITED TO 1 1/2"
10. EXTERIOR CONCRETE SHALL HAVE A MINIMUM AIR ENTRAINMENT OF 5.0 %

REINFORCING

1. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. WELDED BARS ASTM A706, GRADE 60. WELDED WIRE FABRIC PER ASTM A185, AND WIRE PER ASTM A82.
2. UNLESS NOTED OTHERWISE, LAP SPLICES SHALL BE CLASS 'B' TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318, CHAPTER 12. LAP SPLICES IN COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2".
3. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTING AND WALLS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENTS SHALL BE A STANDARD COMPRESSION DOWEL EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF ACI 318.
4. CLEAR CONCRETE COVERAGE AS FOLLOWS FOR CAST-IN-PLACE
- CAST AGAINST & PERMANENTLY EXPOSED TO EARTH: 3"
- EXPOSED TO EARTH OR WEATHER & #6 OR LARGER: 2"
- EXPOSED TO EARTH OR WEATHER & #5 OR SMALLER: 1 1/2"
- COLUMNS (TO TIES): 1 1/2"
- BEAMS (TO STIRRUPS): 1 1/2"
- ALL OTHERS PER LATEST EDITION OF ACI 318.

MIN. REINF. BAR SPLICE LENGTHS IN CONCRETE									
ESTABLISHED PER ACI 318 SECTION 12.2 & 12.3.									
BAR		TENSION BARS						COMP. BARS	
		f'c = 3000 psi		f'c = 4000 psi		f'c = 5000 psi		f'c 4000 psi	
		REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	OPEN	ENCLOSED WITH TIES
		CLASS	CLASS	CLASS	CLASS	CLASS	CLASS		
#3	60	22"	28"	19"	24"	17"	22"	12"	12"
#4	60	29"	37"	25"	33"	23"	29"	15"	13"
#5	60	36"	47"	31"	40"	28"	36"	19"	16"
#6	60	43"	56"	37"	48"	34"	43"	23"	19"
#7	60	63"	81"	54"	71"	49"	63"	27"	22"
#8	60	71"	93"	62"	81"	56"	72"	30"	25"
#9	60	81"	105"	70"	91"	63"	81"	34"	29"
NOTES:									
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST ON THE MEMBER BELOW THE REINFORCEMENT.									
2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS AND WALLS SHALL BE CLASS 'B' TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE COMPRESSION LAP SPLICES.									
3. VALUES SHOWN ABOVE ARE FOR CLEAR COVER OF 1 BAR DIAMETER MINIMUM AND CLEAR BAR SPACING 2 BAR DIAMETERS MINIMUM. WHERE COVER OF BAR SPACING IS LESS THAT THIS INCREASE LAP LENGTH BY 50%.									
4. NO BUNDLE BARS.									
5. ALL CONCRETE SHALL USE NORMAL WEIGHT AGGREGATE.									

METALS

1. MISCELLANEOUS STRUCTURAL STEEL TO BE ASTM A36, Fy = 36 KSI, UNLESS NOTED OTHERWISE.
2. STRUCTURAL STEEL BEAMS AND WIDE FLANGE COLUMNS TO BE ASTM A992 Fy=50 KSI, UNLESS NOTED OTHERWISE.
3. TUBES TO BE ASTM A500 Gr. B, Fy = 46 KSI.
4. PIPES TO BE ASTM A53 Gr. B, Fy = 36 KSI.
5. BOLTS TO BE 3/4" Ø ASTM A325, UNLESS NOTED OTHERWISE. ALL GALVANIZED BOLTED CONNECTIONS HOLES SHALL HAVE 1/8" INCREASE IN DIAMETER OVER BOLT NOMINAL DIAMETER.
6. ALL WELDS TO BE 1/4" FILLET ALL AROUND UNLESS NOTED OTHERWISE.
7. ALL SHOP WELDED ATTACHED PLATES, GUSSET, ETC CONNECTIONS TO GALVANIZED COLUMNS, SHALL BE GALVANIZED. SEE PLAN FOR LOCATION OF GALVANIZED COLUMNS.
8. WELDING TO BE BY CERTIFIED WELDERS USING E70XX ELECTRODES IN ACCORDANCE WITH AWS STANDARDS.
9. ALL STEEL TO HAVE A SHOP COAT OR GALVANIZATION WHERE INDICATED.
10. STEEL FABRICATOR TO SUBMIT SHOP DRAWINGS TO A/E FOR REVIEW PRIOR TO FABRICATION.
11. STEEL WASHERS TO BE USED AT ALL BOLTED CONDITIONS.
12. BRACING RODS TO BE INSTALLED TAUT, ONE STANDARD TURNBUCKLE PER ROD MAY BE USED.
13. LATEST AISC, SJI AND AWS CODES APPLY. ALL CONSTRUCTION PER LATEST AISC HANDBOOK.
14. ALL EXPANSION ANCHORS SHALL BE SIMPSON STRONG BOLT.
15. ALL ADHESIVE ANCHORS TO BE SIMPSON SET-XP ADHESIVE ANCHORS.

SPECIAL INSPECTION:

GENERAL NOTES ON INSPECTIONS

1. INSPECTION, OBSERVATION AND TESTING REQUIREMENTS HAVE BEEN ESTABLISHED PER 2014 OREGON STRUCTURAL SPECIALTY CODE.
- 1.1. REFERENCE PROJECT DRAWINGS, SPECIFICATIONS, AND IBC SECTION 110 AND 17 FOR REQUIREMENTS
- 1.2. ABBREVIATIONS USED
- EOR ENGINEER OF RECORD
- AHJ AUTHORITY HAVING JURISDICTION
2. SPECIAL INSPECTIONS AND STRUCTURAL TESTING (IBC SECTION 1705)
- 2.1. THE OWNER, OR OWNER'S REPRESENTATIVE, SHALL EMPLOY AN APPROVED AGENCY TO PERFORM SPECIAL INSPECTIONS
- 2.2. SPECIAL INSPECTION SHALL BE ACCOMPLISHED BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY CURRENTLY CERTIFIED AND APPROVED BY THE BUILDING OFFICIAL
- 2.3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS
- 2.3.1. CONTINUOUS SPECIAL INSPECTION REQUIRES THE SPECIAL INSPECTOR TO BE ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION. INSPECTIONS MUST BE PREFORMED BEFORE FINAL ACCEPTANCE OF THE ITEM.
- 2.3.1. PERIODIC SPECIAL INSPECTION REQUIRES THE SPECIAL INSPECTOR TO BE ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE, OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
- 2.3.2. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.2
- 2.4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND OTHER DESIGNATED PERSONNEL.
- 2.4.1. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR POSSIBLE CORRECTIVE ACTIONS, THEN IF STILL NOT IN CONFORMANCE REPORTED TO THE EOR AND THE BUILDING OFFICIAL
- 2.4.2. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. ANY INSPECTIONS OR TESTING WHICH IS NOT IN ACCORDANCE SHALL BE CLEARLY INDICATED
- 2.5. SPECIAL INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 17 AND ANY ADDITIONAL REQUIREMENTS OF THE BUILDING OFFICIAL. OMISSION FROM THE LISTED REQUIREMENTS DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING INSPECTION AND TESTING REQUIRED BY THE IBC, SPECIFICATIONS, OR THE BUILDING OFFICIAL
3. CONTRACTOR RESPONSIBILITY (IBC 1704.4)
- 3.1. CONTRACTOR SHALL CONVENE A PRE-CONSTRUCTION MEETING WITH THE EOR, AHJ, AND SPECIAL INSPECTOR WHERE THE REQUIREMENTS FOR SPECIAL INSPECTION, TESTING AND STRUCTURAL OBSERVATIONS AND INSPECTION SCHEDULE ARE DISCUSSED. MEETING MINUTES SHALL BE PROVIDED TO THE AHJ AND MAINTAINED ON-SITE AT ALL TIMES

STATEMENT OF SPECIAL INSPECTION			
ITEM	SPECIAL INSPECTION	STRUCTURAL OBSERVATION	IBC SECTION
POST-INSTALLED ANCHORAGE	X		1705.17
COMMENTS: ITEMS INDICATE WITH AN "X" ABOVE INDICATE THE REQUIREMENT FOR SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATIONS SEE GENERAL NOTES ON INSPECTIONS BELOW FOR ADDITIONAL INFORMATION.			

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: JUV	DRAWN: B. HUTSON
DESIGNED: --	DRAWN: --
DESIGNED: --	DRAWN: --
CHECKED: --	APPROVED: --



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

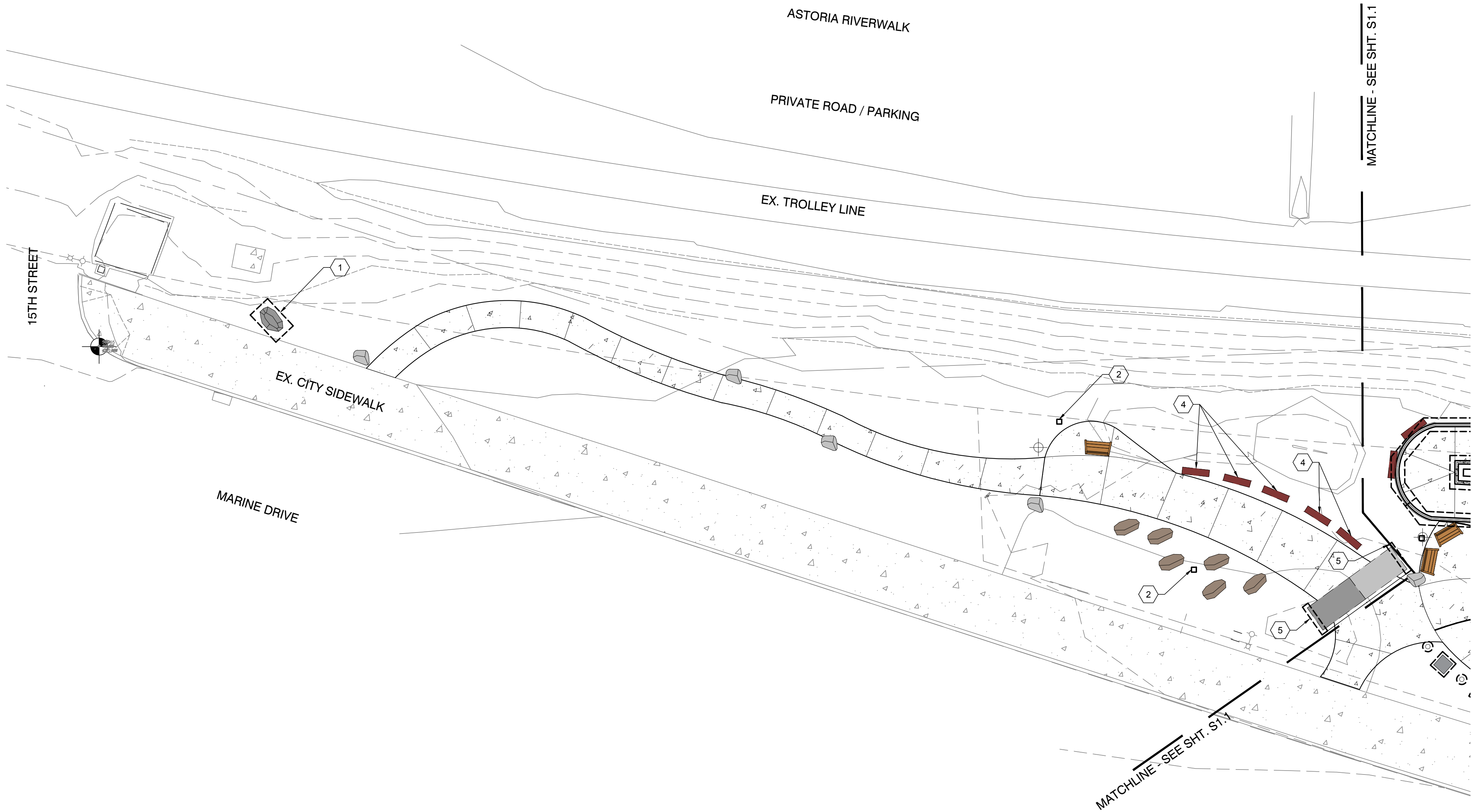
STRUCTURAL NOTES

SCALE:	AS SHOWN
PROJECT NO:	18245
DRAWING NO:	\$0.00
SHEET NO:	44 OF 49

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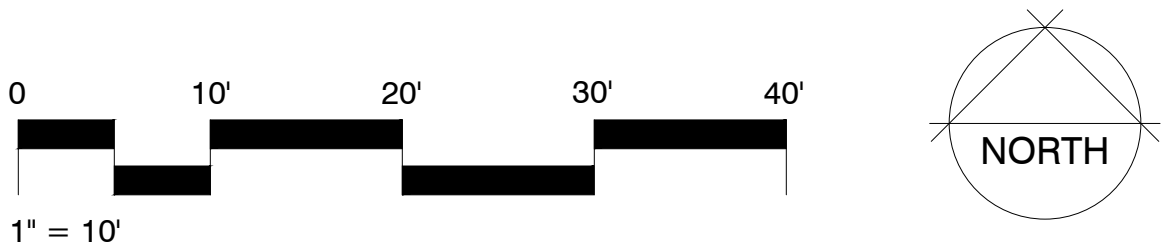
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- NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC LOCATIONS OF EACH FOUNDATION ELEMENT
 2. REFER TO SHEET S4.0 FOR FOUNDATION DETAILS

- KEY NOTES:** #
1. RUNE STONE FOUNDATION
 2. HIDDEN TROLL FOUNDATION
 3. ENGRAVED GRANITE PILLAR FOUNDATION
 4. INTERPRETIVE SIGNAGE FOUNDATION
 5. ARCH FOUNDATION
 6. FLAG POLE FOUNDATION
 7. MIDSUMMER POLE FOUNDATION
 8. PARK SIGN FOUNDATION

1 SITE PLAN - WEST



DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



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DESIGNED: --	DRAWN: --
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PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

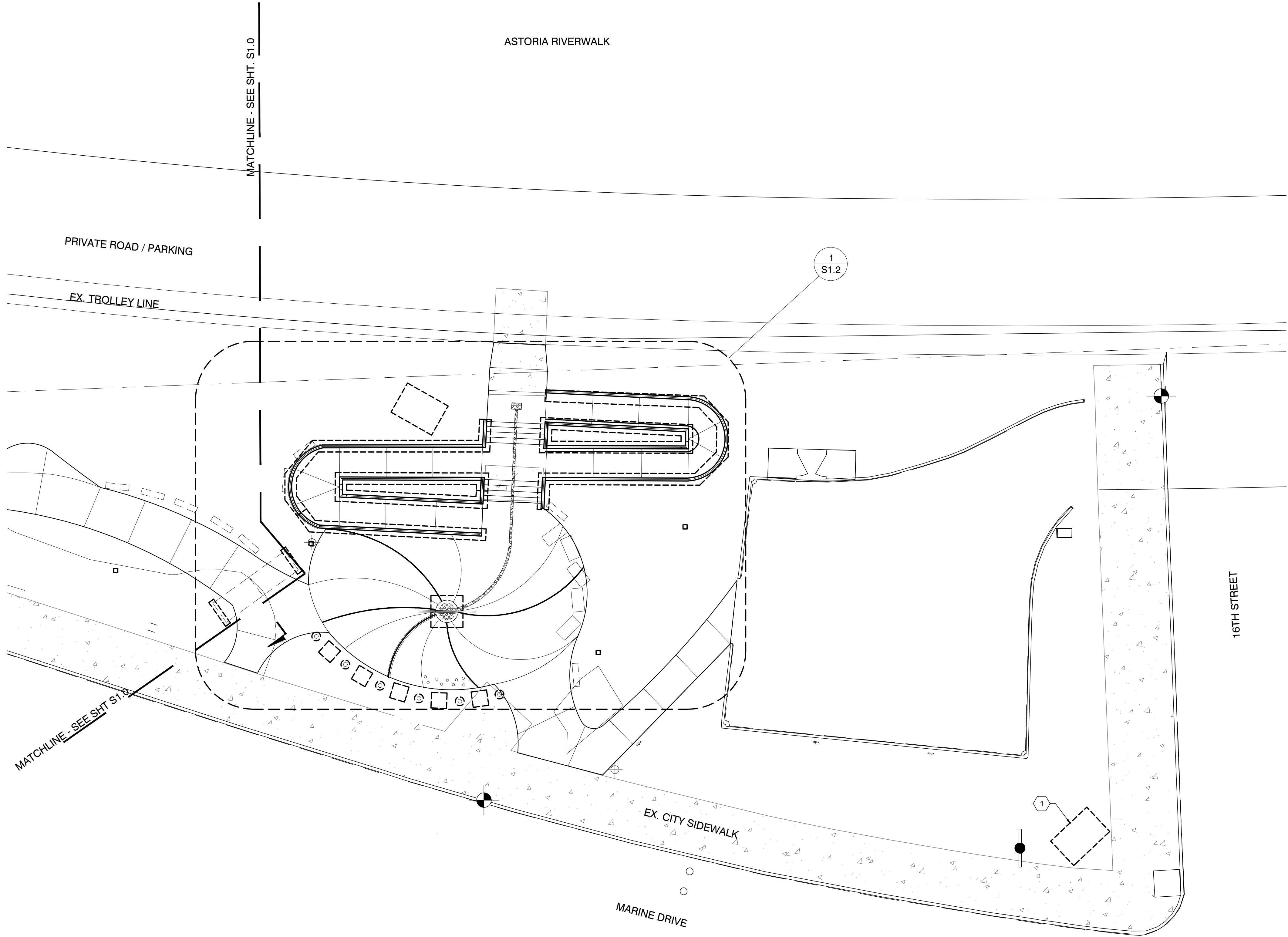
ASTORIA SCANDINAVIAN
HERITAGE PARK
FOUNDATION PLAN WEST

SCALE:	AS SHOWN
PROJECT NO:	18245
DRAWING NO:	S1.00
SHEET NO:	45 OF 49

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- NOTES:**
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 5. ARCH FOUNDATION
 6. FLAG POLE FOUNDATION
 7. MIDSUMMER POLE FOUNDATION
 8. PARK SIGN FOUNDATION

1 FOUNDATION PLAN - EAST

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



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DESIGNED: --	DRAWN: --
DESIGNED: --	DRAWN: --
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PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

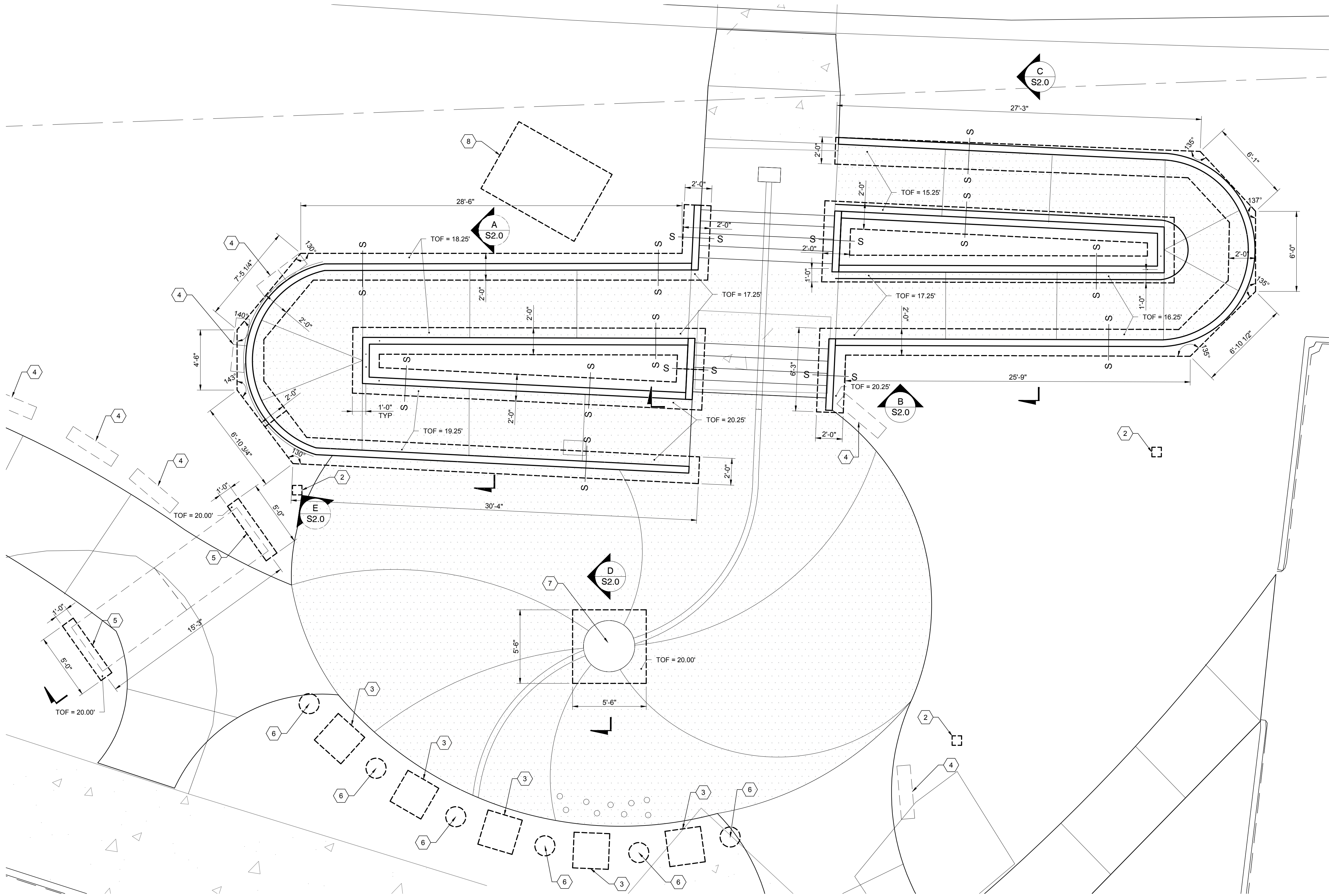
CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

FOUNDATION SITE PLAN EAST

SCALE:	AS SHOWN
PROJECT NO:	18245
DRAWING NO:	S1.10
SHEET NO:	46 OF 49

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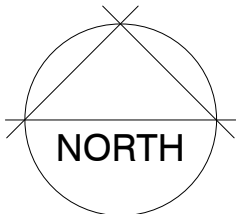
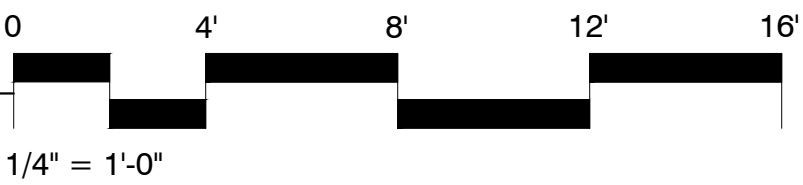


- NOTES:**
1. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC LOCATIONS OF EACH FOUNDATION ELEMENT
 2. DIMENSION WILL VARY AT WALKWAY CURVES. SEE ARCHITECTURAL PLANS FOR CURVE GEOMETRY.
 3. REFER TO SHEET S4.0 FOR FOUNDATION DETAILS
 4. SEE CIVIL PLANS FOR TOP OF WALL ELEVATIONS
 5. STEP IN FOOTING SHOWN FOR REFERENCE ONLY. ELEVATIONS SHALL BE CONFIRMED IN FIELD BY CONTRACTOR FOR MINIMUM FROST DEPTHS PRIOR TO CONSTRUCTION OF FOOTINGS. G.C. TO VERIFY LOCATION OF STEPS IN FIELD.

- LEGEND:**
- S — S STEP IN FOOTING, SEE DETAIL 6 ON S4.0
- T.O.F. TOP OF FOOTING
- 5" CONCRETE SLAB WITH #4 @ 16" O.C. E.W. TYPICAL

- KEY NOTES:**
1. RUNE STONE FOUNDATION
 2. HIDDEN TROLL FOUNDATION
 3. ENGRAVED GRANITE PILLAR FOUNDATION
 4. INTERPRETIVE SIGNAGE FOUNDATION
 5. ARCH FOUNDATION
 6. FLAG POLE FOUNDATION
 7. MIDSUMMER POLE FOUNDATION
 8. PARK SIGN FOUNDATION

1 FOUNDATION PLAN - EAST



DRAWING ISSUE		DATE
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DESIGNED: --	DRAWN: --
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PROJECT LOCATION:
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ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

ENLARGED FOUNDATION PLAN

SCALE:	AS SHOWN
PROJECT NO:	18245
DRAWING NO:	S1.20
SHEET NO:	47 OF 49

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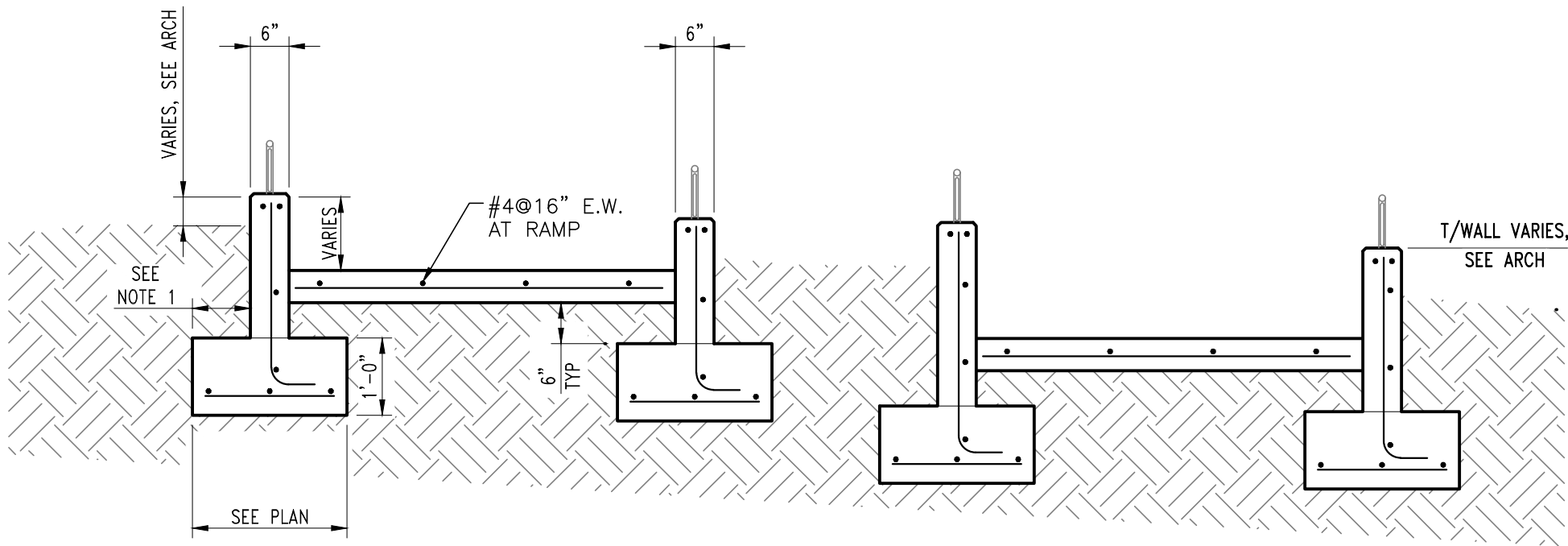
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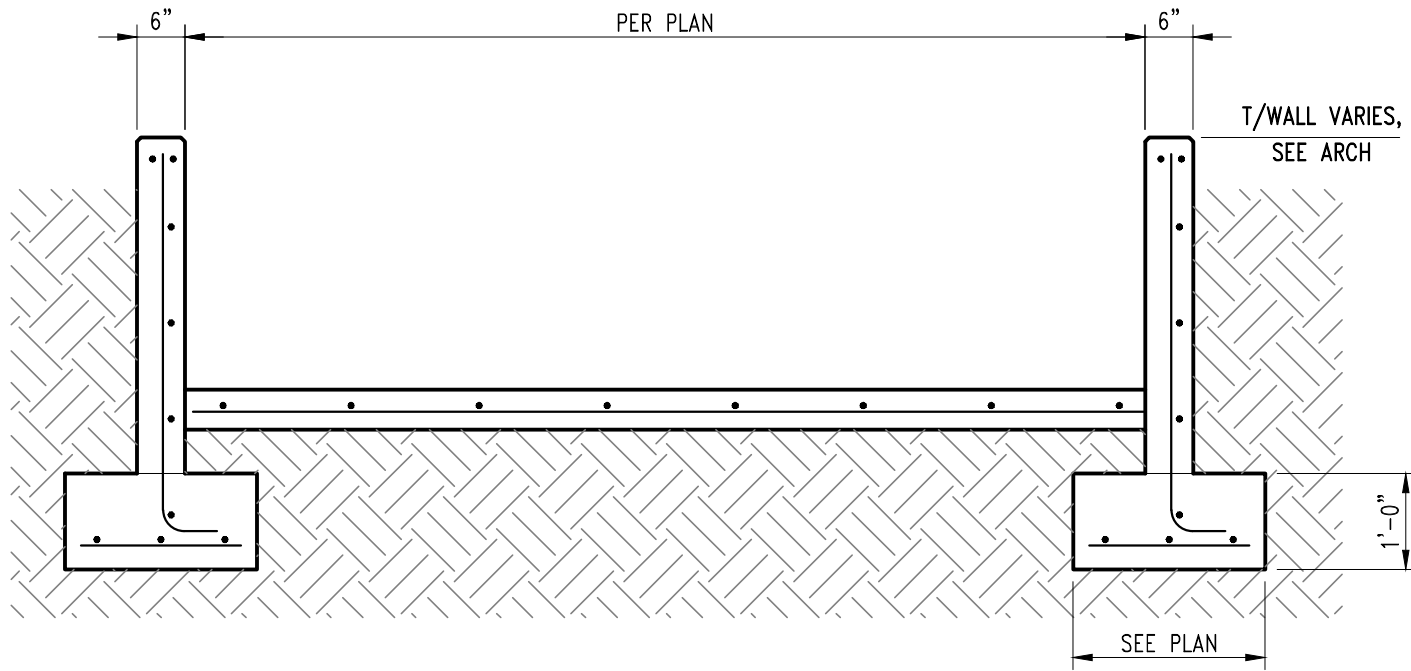
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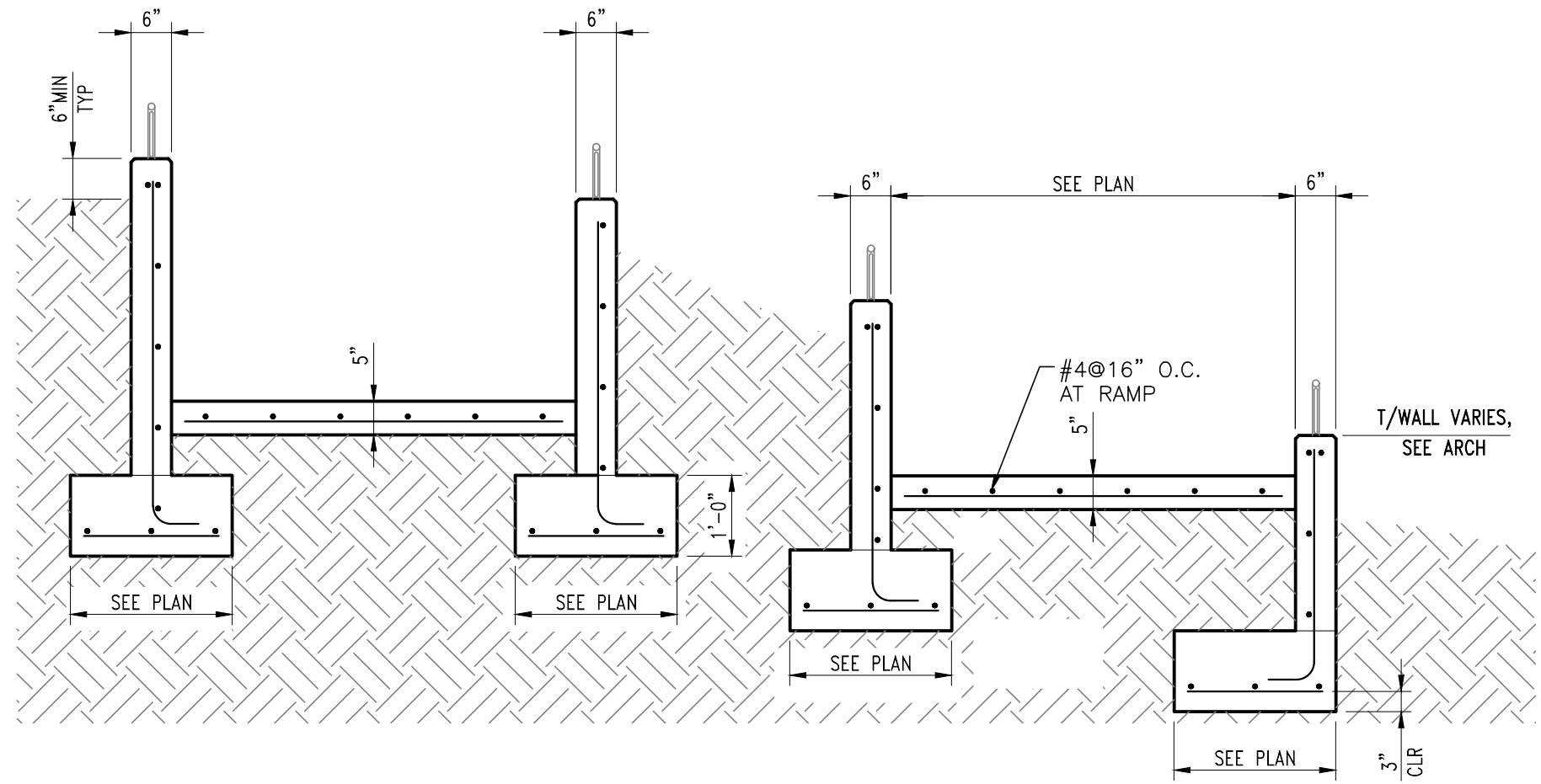


NOTES:
1. DIMENSION WILL VARY AT WALKWAY CURVES.
SEE ARCHITECTURAL PLANS FOR CURVE GEOMETRY.

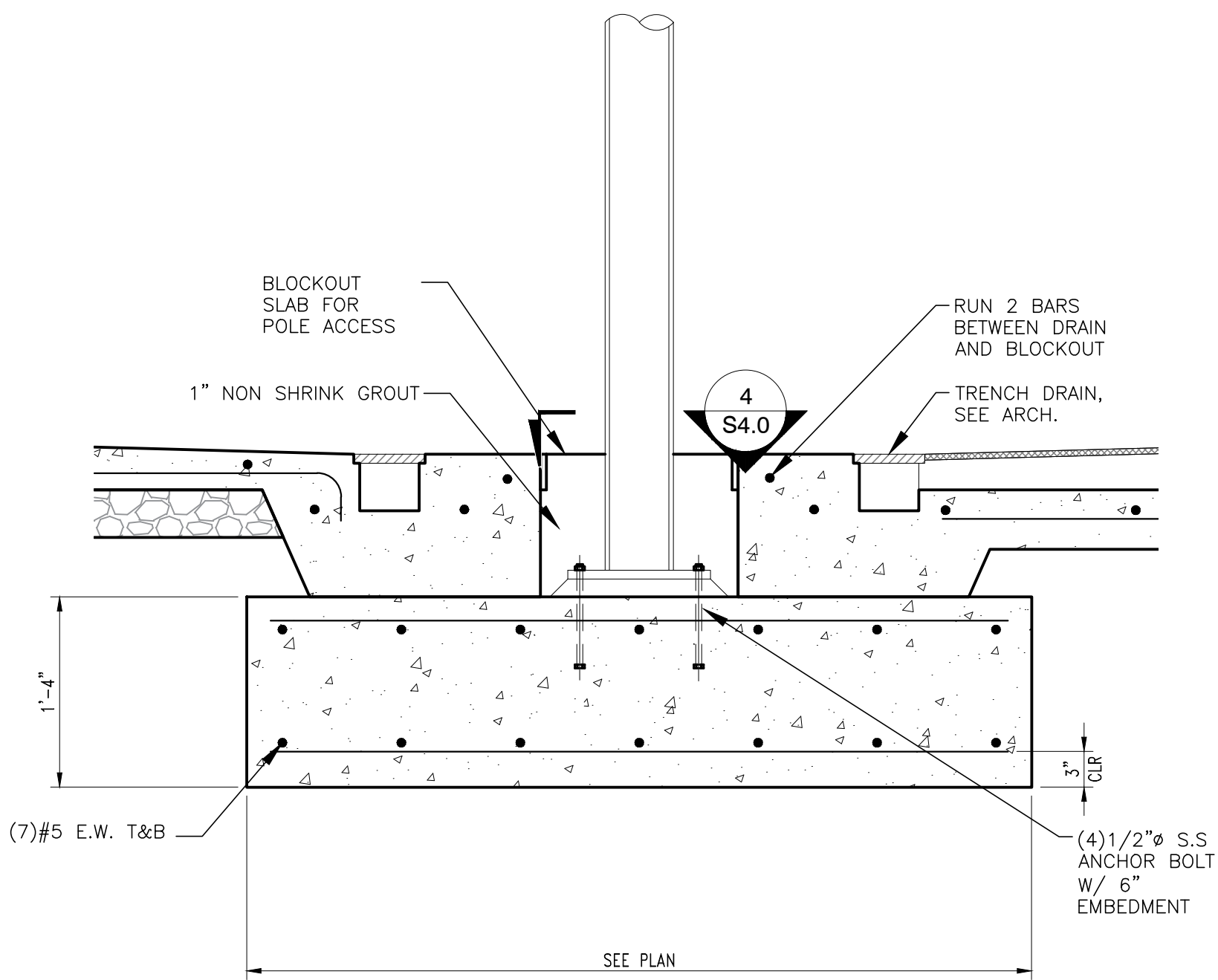
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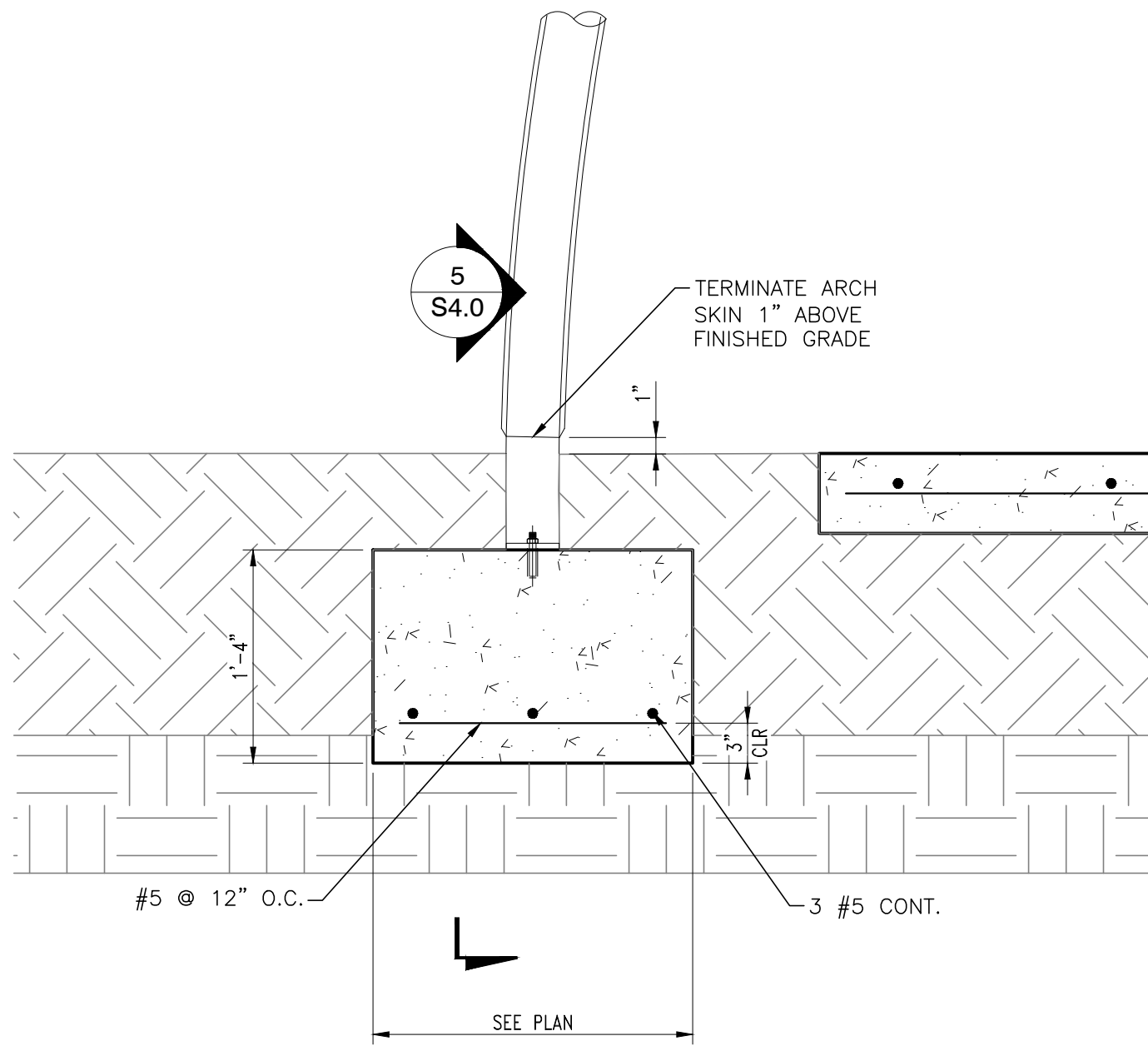
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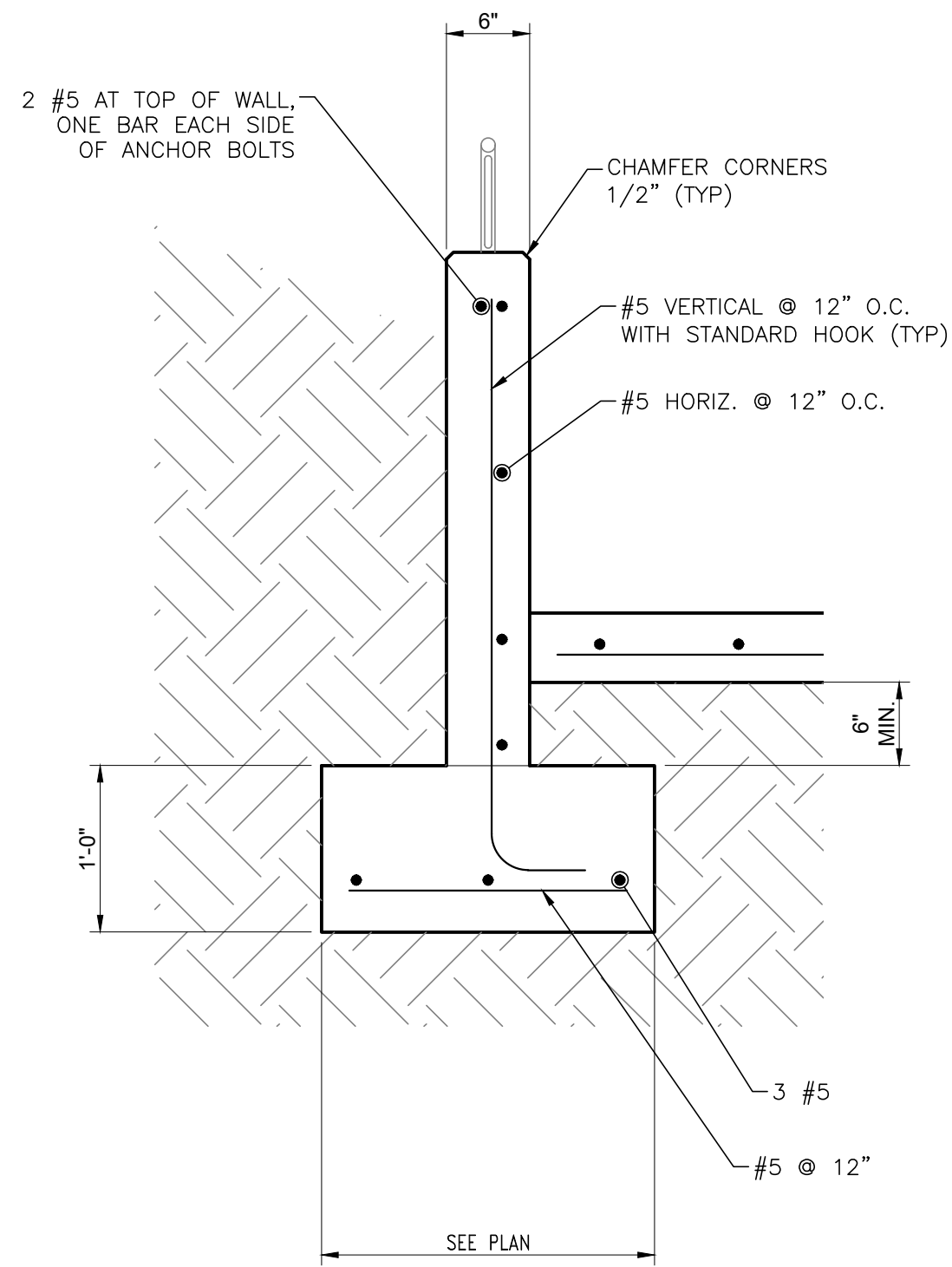
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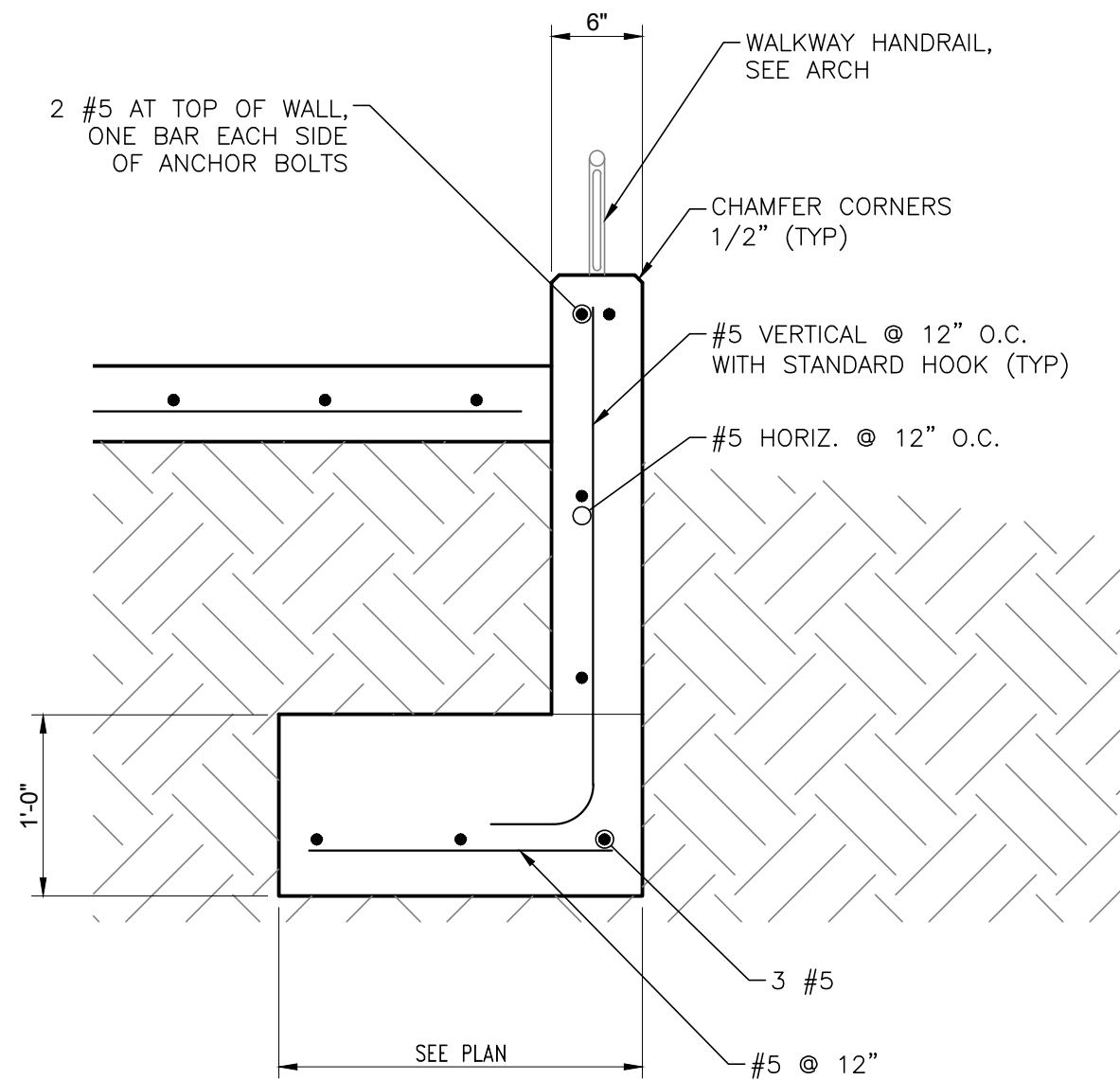
D SECTION
SCALE: 1" = 1'-0"



E SECTION
SCALE: 1" = 1'-0"



F SECTION
SCALE: 1" = 1'-0"



G SECTION
SCALE: 1" = 1'-0"

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
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DESIGNED: --	DRAWN: --
DESIGNED: --	DRAWN: --
CHECKED: --	APPROVED: --



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

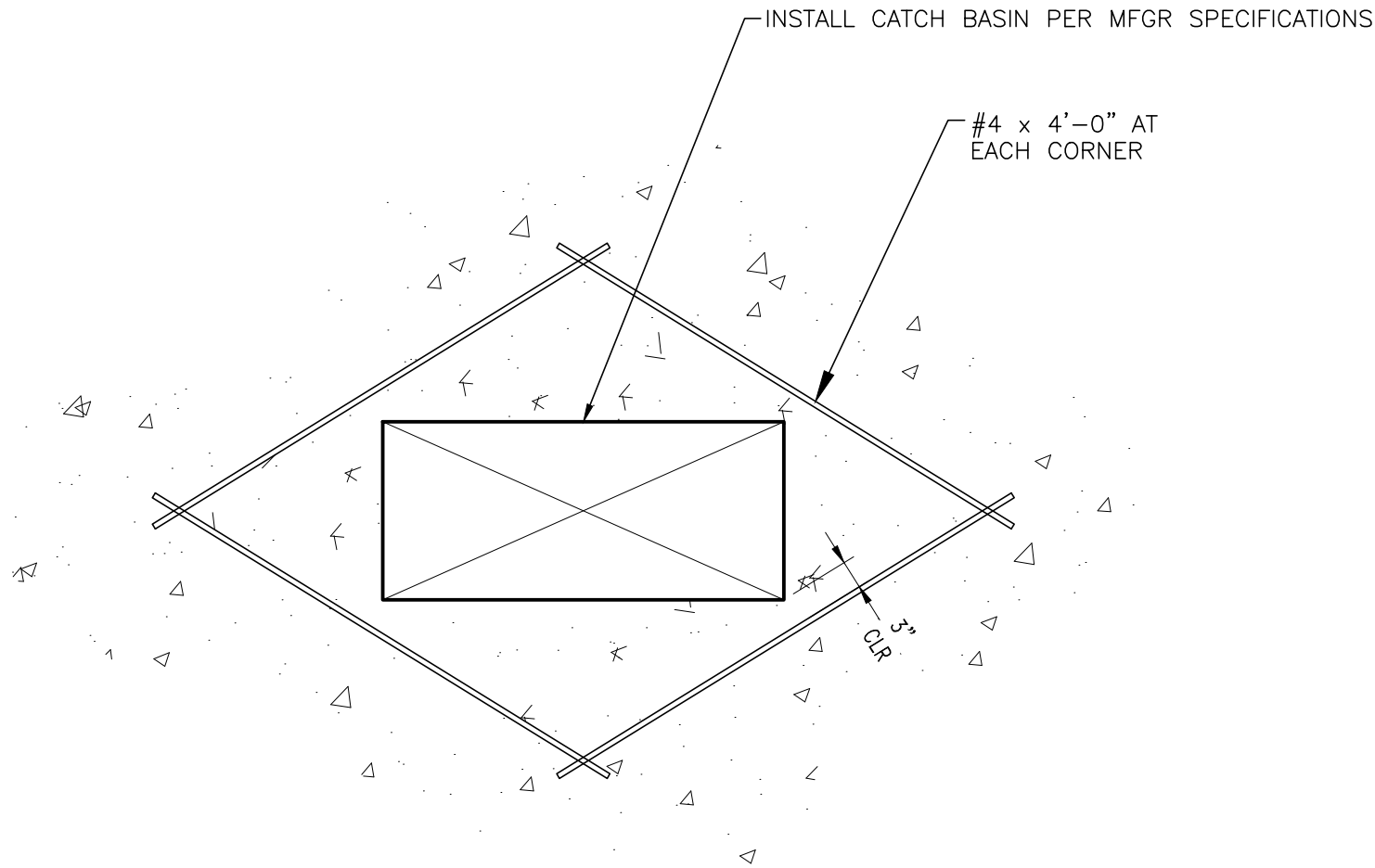
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ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

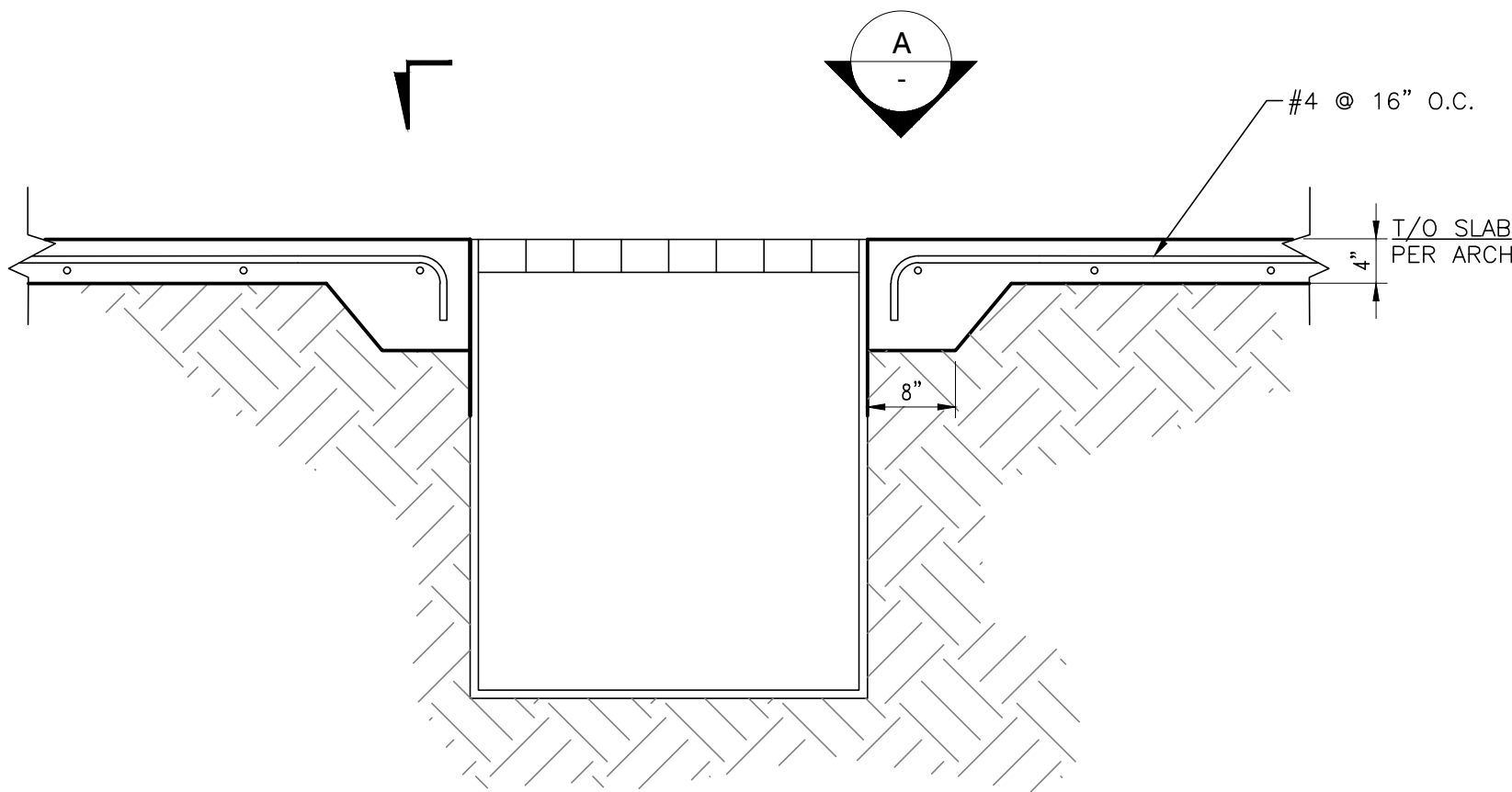
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SCALE:	AS SHOWN
PROJECT NO:	18245
DRAWING NO:	S2.00
SHEET NO:	48 OF 49

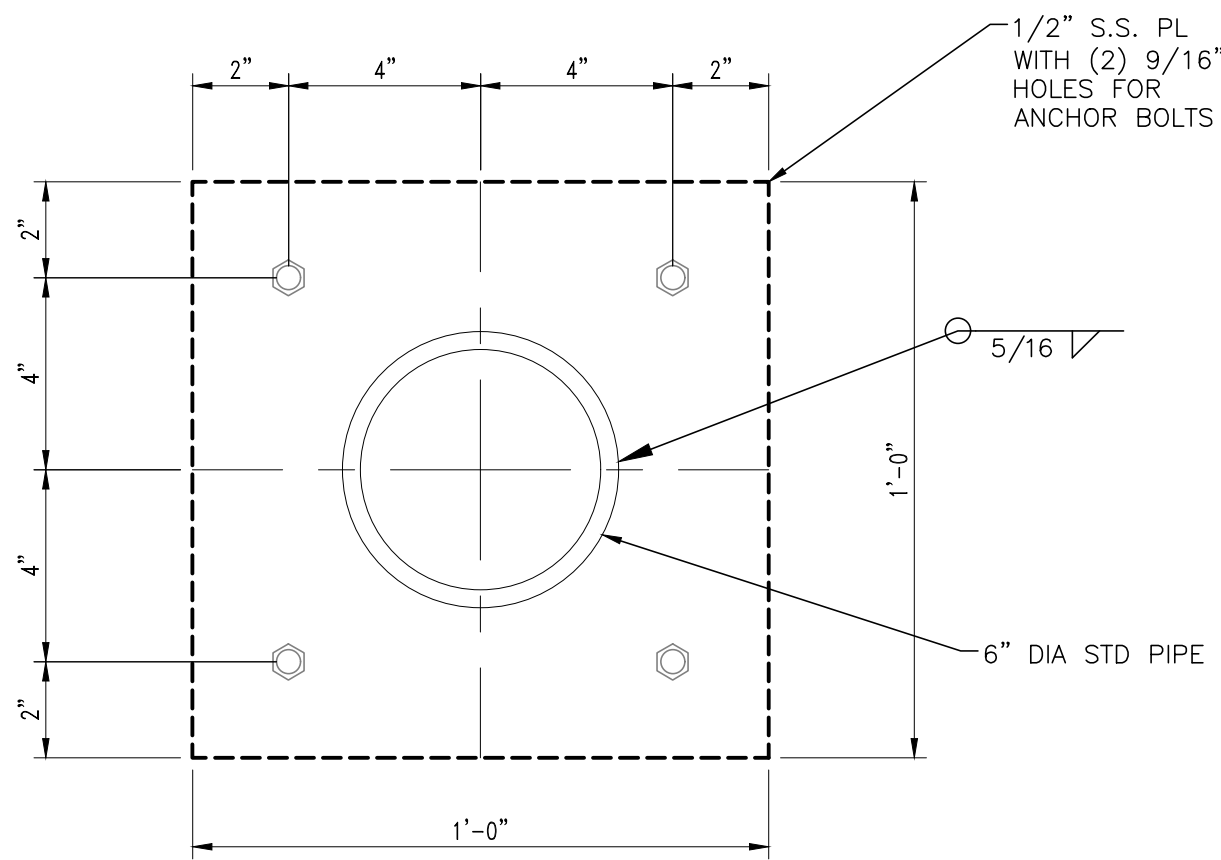
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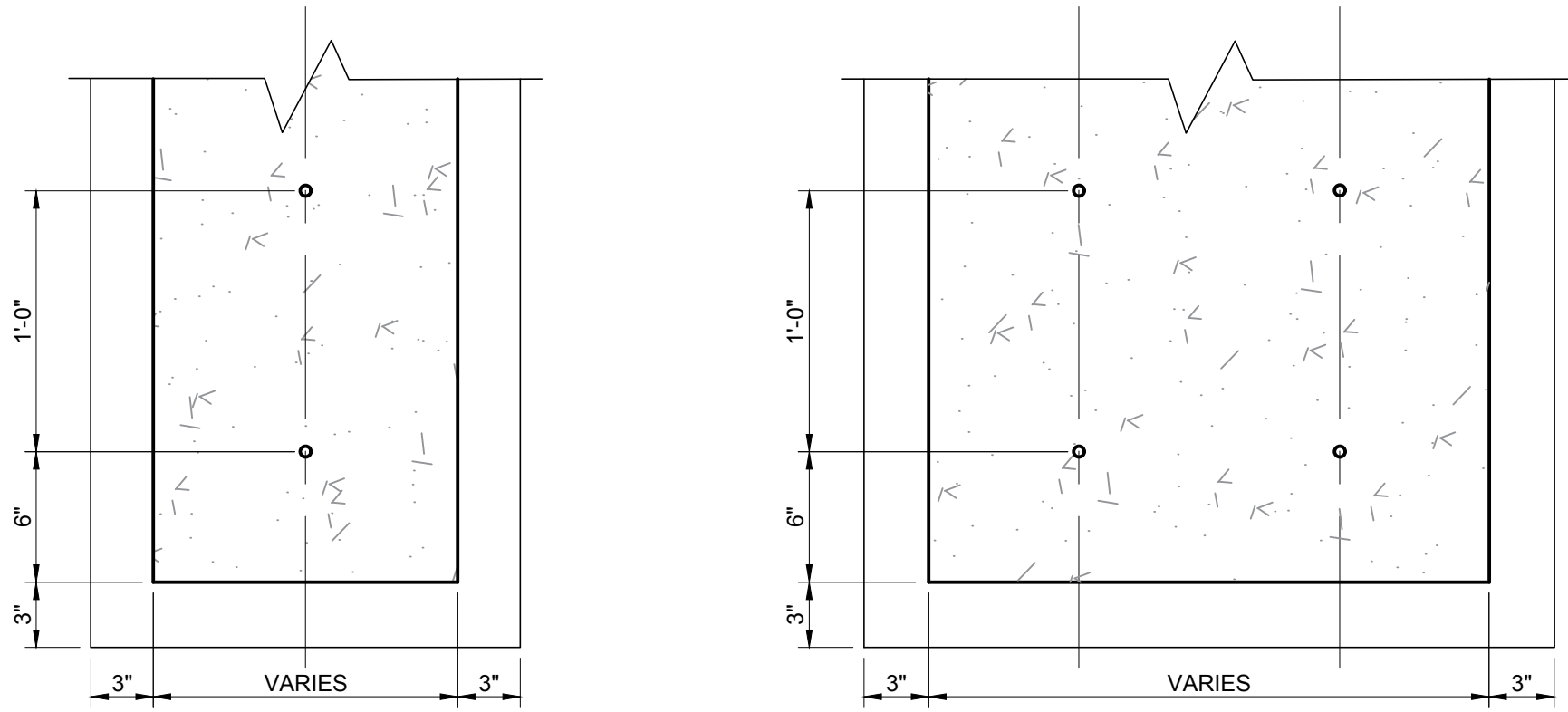
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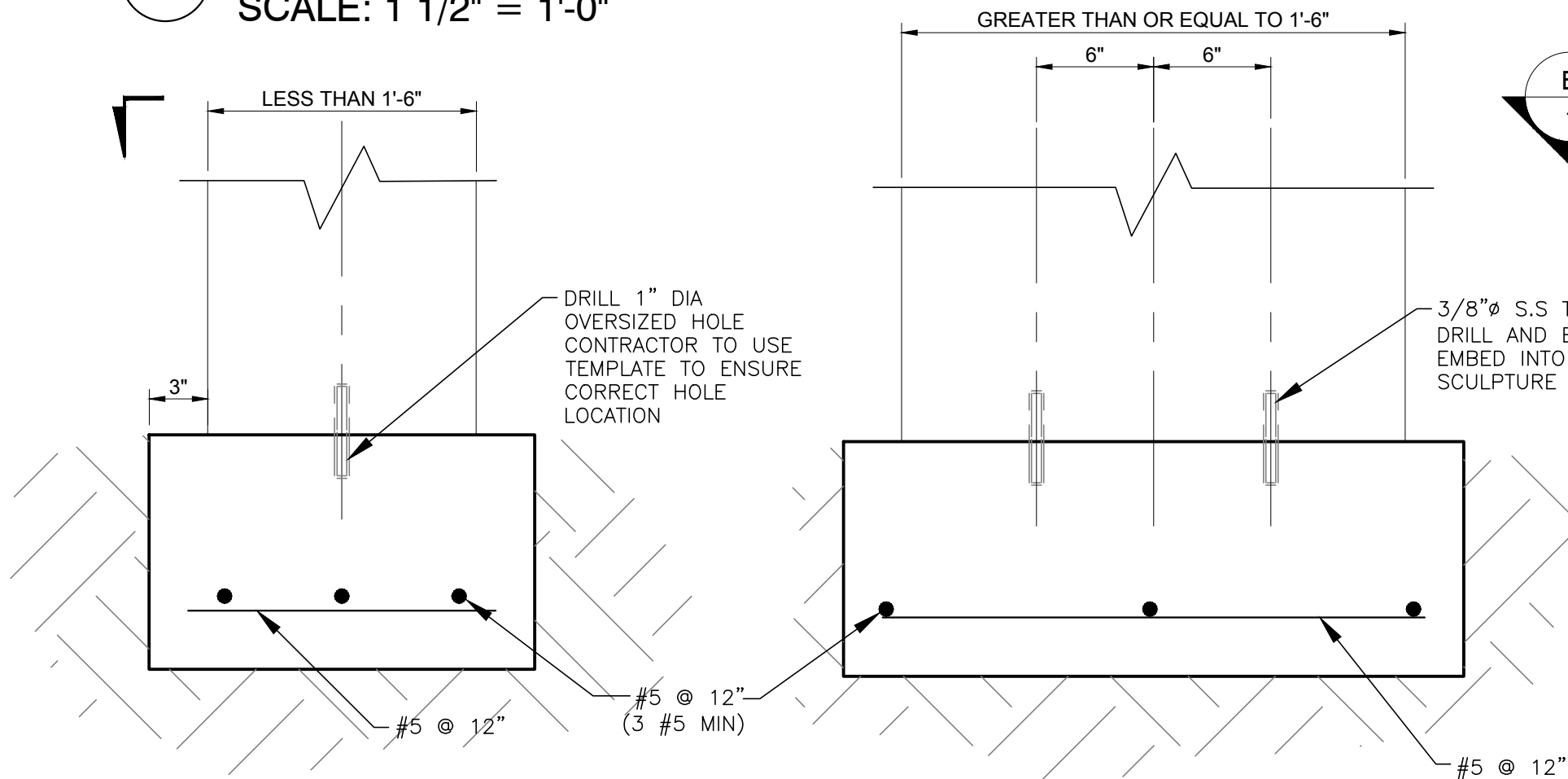
1 SLAB EDGE AT CATCH BASIN
SCALE: 3/4" = 1'-0"



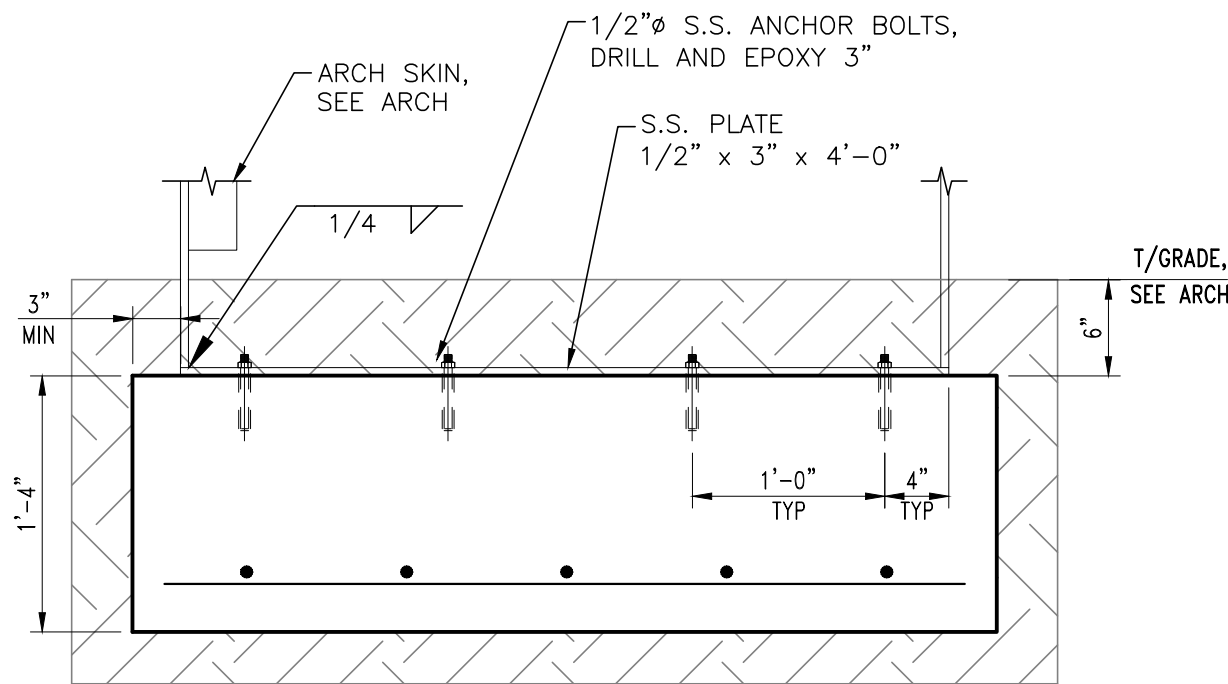
4 MIDSUMMER POLE BASEPLATE
SCALE: 3" = 1'-0"



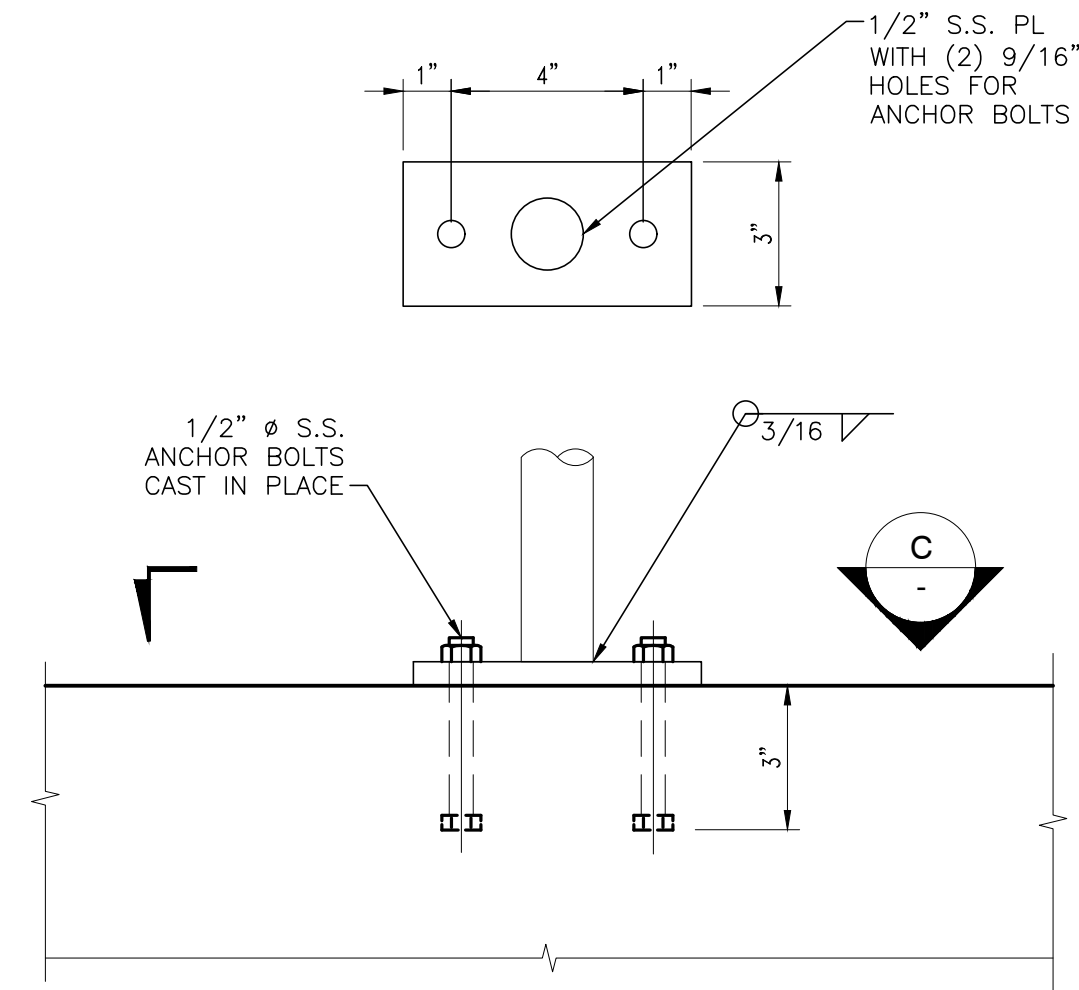
B SECTION
SCALE: 1 1/2" = 1'-0"



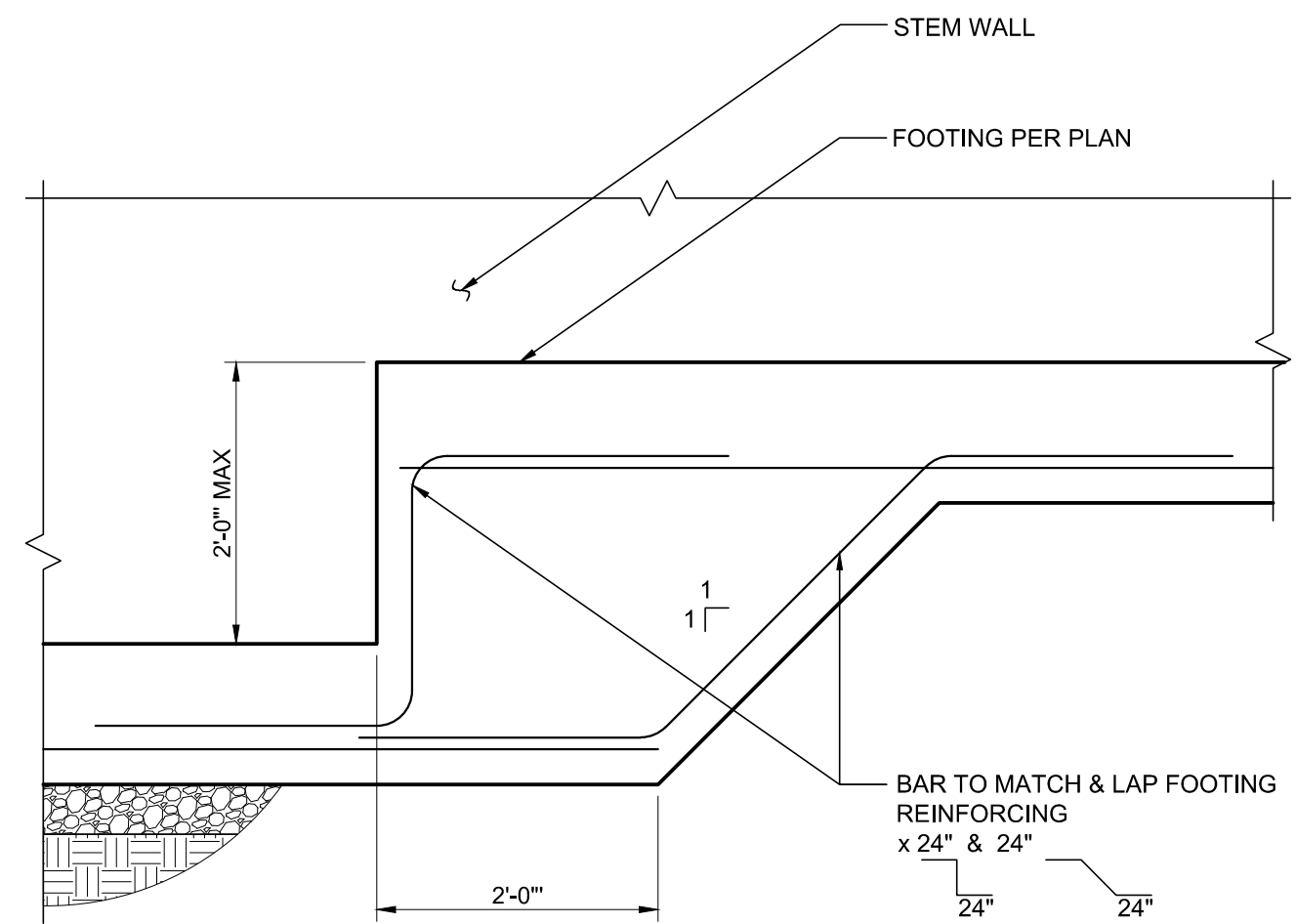
2 GRANITE SLAB OR SCULPTURE CONNECTION TO FOUNDATION
SCALE: 1 1/2" = 1'-0"



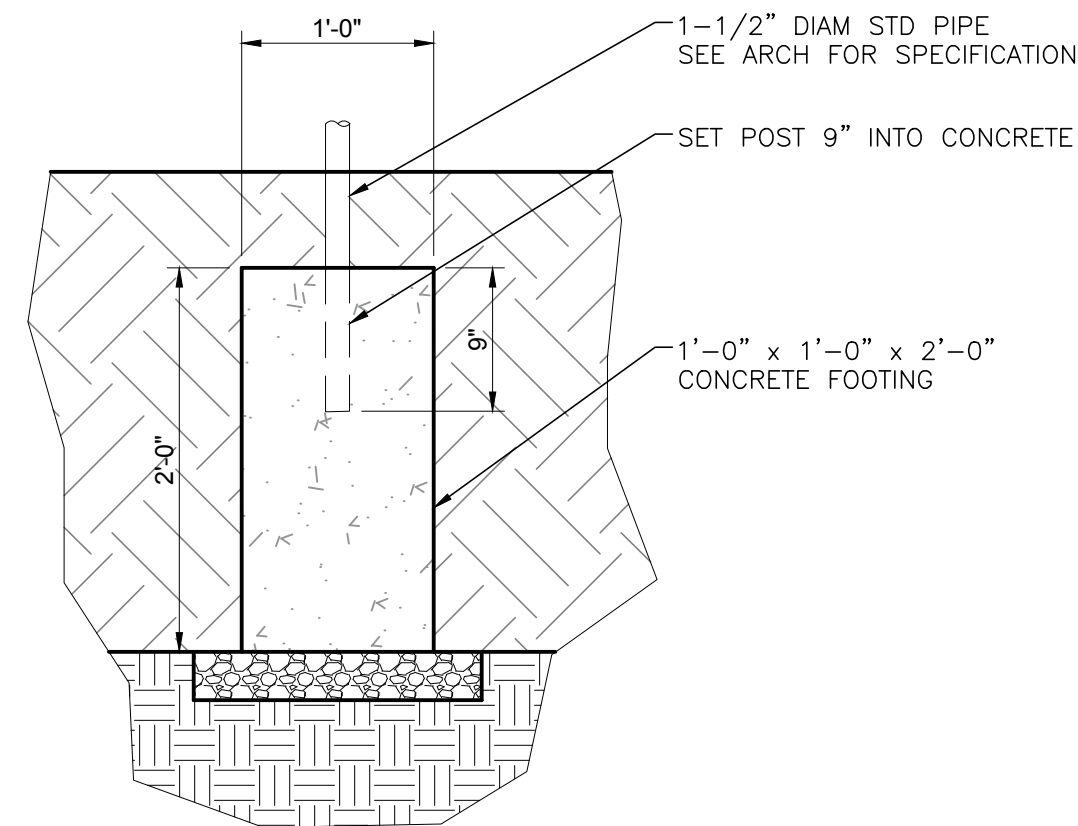
5 ARCH CONNECTION TO FOUNDATION
SCALE: 1" = 1'-0"



3 HANDRAIL CONNECTION
SCALE: 3" = 1'-0"



6 STEPPED FOOTING
SCALE: 3/4" = 1'-0"



7 FREE STANDING SIGNAGE FOOTING
SCALE: 1" = 1'-0"

DRAWING ISSUE		DATE
100% ENGINEERED PLANS		02/01/2019
No.	REVISION	DATE
NOT FOR CONSTRUCTION		



DESIGNED: JVJ	DRAWN: B. HUTSON
DESIGNED: --	DRAWN: --
DESIGNED: --	DRAWN: --
CHECKED: --	APPROVED: --



PROJECT LOCATION:
16TH AND MARINE DRIVE
ASTORIA, OREGON 97103

CLIENT:
ASTORIA SCANDINAVIAN
HERITAGE ASSOCIATION
PO BOX 34
ASTORIA, OREGON 97103

ASTORIA SCANDINAVIAN
HERITAGE PARK

DETAILS

SCALE:	AS SHOWN
PROJECT NO:	18245
DRAWING NO:	S4.00
SHEET NO:	49 OF 49